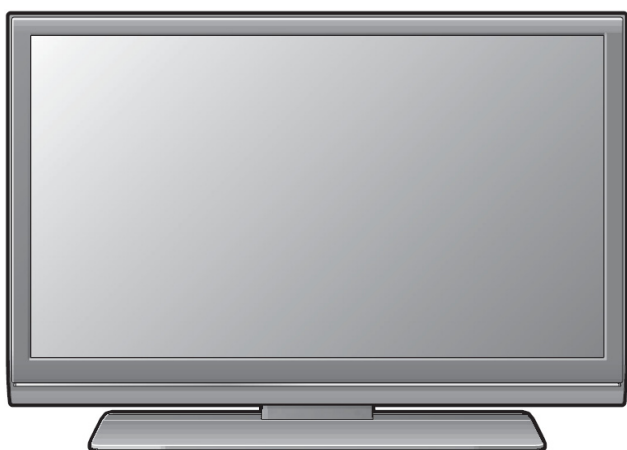


# SHARP SERVICE MANUAL



## LCD COLOUR TELEVISION

**LC-32LE40E**  
**MODEL LC-42LE40E**

In the interests of user-safety (Required by safety regulations in some countries) the set should be restored to its original condition and only parts identical to those specified should be used.

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Parts marked with "  " are important for maintaining the safety of the set. Be sure to replace these parts with specified ones for maintaining the safety and performance of the set.

## SAFETY PRECAUTION

### IMPORTANT SERVICE SAFETY PRECAUTION

Service work should be performed only by qualified service technicians who are thoroughly familiar with all safety checks and the servicing guidelines which follow:

#### WARNING

1. For continued safety, no modification of any circuit should be attempted.
2. Disconnect AC power before servicing.

#### CAUTION:

FOR CONTINUED PROTECTION AGAINST A RISK OF FIRE REPLACE ONLY WITH SAME TYPE FUSE.

**F9901/F9902 (6.3A/250V)**

#### BEFORE RETURNING THE RECEIVER (Fire & Shock Hazard)

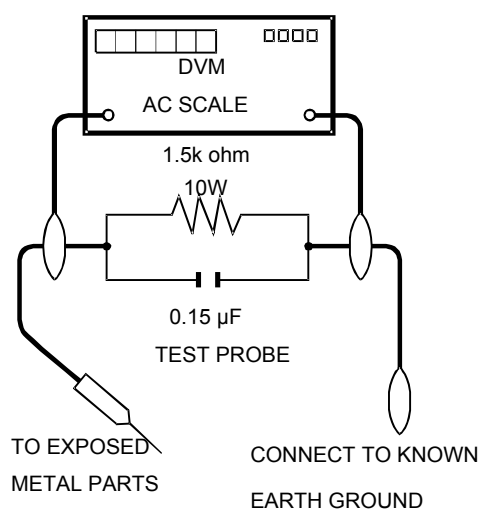
Before returning the receiver to the user, perform the following safety checks:

3. Inspect all lead dress to make certain that leads are not pinched, and check that hardware is not lodged between the chassis and other metal parts in the receiver.
4. Inspect all protective devices such as non-metallic control knobs, insulation materials, cabinet backs, adjustment and compartment covers or shields, isolation resistor-capacitor networks, mechanical insulators, etc.
5. To be sure that no shock hazard exists, check for leakage current in the following manner.
  - Plug the AC cord directly into a 220~240 volt AC outlet.
  - Using two clip leads, connect a 1.5k ohm, 10 watt resistor paralleled by a 0.15μF capacitor in series with all exposed metal cabinet parts and a known earth ground, such as electrical conduit or electrical ground connected to an earth ground.

- Use an AC voltmeter having with 5000 ohm per volt, or higher, sensitivity or measure the AC voltage drop across the resistor.
- Connect the resistor connection to all exposed metal parts having a return to the chassis (antenna, metal cabinet, screw heads, knobs and control shafts, escutcheon, etc.) and measure the AC voltage drop across the resistor.

All checks must be repeated with the AC cord plug connection reversed. (If necessary, a nonpolarized adaptor plug must be used only for the purpose of completing these checks.)

Any reading of 1.05 V peak (this corresponds to 0.7 mA peak AC.) or more is excessive and indicates a potential shock hazard which must be corrected before returning the monitor to the owner.



#### SAFETY NOTICE

Many electrical and mechanical parts in LCD color television have special safety-related characteristics.

These characteristics are often not evident from visual inspection, nor.

can protection afforded by them be necessarily increased by using replacement components rated for higher voltage, wattage, etc.

Replacement parts which have these special safety characteristics are identified in this manual; electrical components having such

features are identified by “” and shaded areas in the

Replacement Parts List and Schematic Diagrams.

For continued protection, replacement parts must be identical to those used in the original circuit.

The use of a substitute replacement parts which do not have the same safety characteristics as the factory recommended replacement parts shown in this service manual, may create shock, fire or other hazards.

## PRECAUTIONS FOR USING LEAD-FREE SOLDER

### ■ Using lead-free wire solder

- When fixing the PWB soldered with the lead-free solder, apply lead-free wire solder. Repairing with conventional lead wire solder may cause damage or accident due to cracks.

As the melting point of lead-free solder (Sn-Ag-Cu) is higher than the lead wire solder by 40 °C, we recommend you to use a dedicated soldering bit, if you are not familiar with how to obtain lead-free wire solder or soldering bit, contact our service station or service branch in your area.

### Soldering

- As the melting point of lead-free solder (Sn-Ag-Cu) is about 220 °C which is higher than the conventional lead solder by 40 °C, and as it has poor solder wettability, you may be apt to keep the soldering bit in contact with the PWB for extended period of time. However, Since the land may be peeled off or the maximum heat-resistance temperature of parts may be exceeded, remove the bit from the PWB as soon as you confirm the steady soldering condition.

Lead-free solder contains more tin, and the end of the soldering bit may be easily corroded. Make sure to turn on and off the power of the bit as required.

If a different type of solder stays on the tip of the soldering bit, it is alloyed with lead-free solder. Clean the bit after every use of it.

When the tip of the soldering bit is blackened during use, file it with steel wool or fine sandpaper.

- Be careful when replacing parts with polarity indication on the PWB silk.

# CHAPTER 1. OPERATION MANUAL

## [1] SPECIFICATIONS

| Item                  |                          |          | 32” LCD COLOUR TV<br>Model: LC-32LE40E                                                                                                                                                                                                                                          | 42” LCD COLOUR TV<br>Model: LC-42LE40E          |
|-----------------------|--------------------------|----------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------|
| LCD screen size       |                          |          | 32” diagonal                                                                                                                                                                                                                                                                    | 42” diagonal                                    |
| Number of dots        |                          |          | 3,147,264 dots (1366 x 768 x 3 dots)                                                                                                                                                                                                                                            | 6,220,800 dots (1920 x 1080 x 3 dots)           |
| Video Colour System   |                          |          | PAL/SECAM/NTSC 3.58/NTSC 4.43/PAL 60                                                                                                                                                                                                                                            |                                                 |
| TV Function           | TV-Standard              | Analogue | CCIR (B/G, I, D/K, L/L’)                                                                                                                                                                                                                                                        |                                                 |
|                       |                          | Digital  | DVB-T (2K/8K OFDM), DVB-C                                                                                                                                                                                                                                                       |                                                 |
|                       | Receiving Channel        | VHF/UHF  | ATV: IRA-E69, DVB-T: E5-E69                                                                                                                                                                                                                                                     |                                                 |
|                       |                          | CATV     | S-band, S1–S41ch                                                                                                                                                                                                                                                                |                                                 |
|                       | TV-Tuning System         |          | Auto Preset 1599 ch, Auto Label, Auto Sort                                                                                                                                                                                                                                      |                                                 |
|                       | Stereo/Bilingual         |          | NICAM/A2                                                                                                                                                                                                                                                                        |                                                 |
| Audio amplifier       |                          |          | 10 W x 2                                                                                                                                                                                                                                                                        | 10 W x 2                                        |
| Speaker               |                          |          | 132(H) x 27(W) x 26(D) mm                                                                                                                                                                                                                                                       | 132(H) x 27(W) x 26(D) mm                       |
| Rear                  | ANTENNA                  |          | UHF/VHF 75 Ω                                                                                                                                                                                                                                                                    |                                                 |
|                       | RS-232C                  |          | D-sub 9 pin male connector                                                                                                                                                                                                                                                      |                                                 |
|                       | SCART                    |          | SCART (AV input, Y/C input, RGB input, TV output )                                                                                                                                                                                                                              |                                                 |
|                       | PC IN                    |          | D-sub 15 pin (AV input), Ø 3.5mm jack (Audio input)                                                                                                                                                                                                                             |                                                 |
|                       | COMPONENT                |          | Y/Pb(Cb)/Pr(Cr), RCA pin (L/R)                                                                                                                                                                                                                                                  |                                                 |
|                       | SPDIF OUT                |          | Digital audio output                                                                                                                                                                                                                                                            |                                                 |
|                       | AV OUT                   |          | RCA pin (AV output)                                                                                                                                                                                                                                                             |                                                 |
|                       | HDMI 1                   |          | Digital video and audio input, ARC                                                                                                                                                                                                                                              |                                                 |
|                       | HDMI 2                   |          | Digital video and audio input                                                                                                                                                                                                                                                   |                                                 |
| Side                  | C. I. (Common Interface) |          | EN50221, R206001, CI Plus specification                                                                                                                                                                                                                                         |                                                 |
|                       | AV IN                    |          | RCA pin (AV input)                                                                                                                                                                                                                                                              |                                                 |
|                       | USB                      |          | Software update, multi-media play                                                                                                                                                                                                                                               |                                                 |
|                       | HEADPHONE                |          | Ø 3.5mm jack (Audio output)                                                                                                                                                                                                                                                     |                                                 |
| OSD Language          |                          |          | English, German, French, Italian, Dutch, Spanish, Greek, Portuguese, Swedish, Finnish, Russian, Polish, Turkish, Hungarian, Czech, Slovak, Danish, Norwegian, Estonian, Latvian, Lithuanian, Slovenian, Bulgarian, Croatian, Romanian, Serbian, Ukrainian, Gaelic, Belarussian. |                                                 |
| Power Requirement     |                          |          | AC 220–240 V, 50 Hz                                                                                                                                                                                                                                                             |                                                 |
| Power Consumption     |                          |          | 59 W (Standby < 0.3W) (Method IEC62087)                                                                                                                                                                                                                                         | 93 W (Standby < 0.3W) (Method IEC62087)         |
| Weight                |                          |          | 8.2 kg (Without stand), 9.4 kg (With stand)                                                                                                                                                                                                                                     | 12.79 kg (Without stand), 15.72 kg (With stand) |
| Operating temperature |                          |          | 0°C to +40°C                                                                                                                                                                                                                                                                    |                                                 |

• As a part of policy of continuous improvement, SHARP reserves the right to make design and specification changes for product improvement without prior notice. The performance specification figures indicated are nominal values of production units. There may be some deviations from these values in individual units.

### NOTE

- Refer to the inside back cover for dimensional drawings.
- Audio cannot be output through the HDMI terminal.



**Environmental Specifications**

| Item                                                             |              | 32"     | 42"     |
|------------------------------------------------------------------|--------------|---------|---------|
| <b>*1 On-Mode (W)</b>                                            | Standard     | 41.5W   | 62.4W   |
| <b>*2 Energy-Save-Mode (W)</b>                                   | Eco > On     | 32W     | 46W     |
| <b>*3 Standby-Mode (W)</b>                                       |              | 0.27W   | 0.29W   |
| <b>*4 Off Mode (W)</b>                                           | Power button | 0.26W   | 0.28W   |
| <b>*5 Annual Energy Consumption (kWh)</b>                        |              | 60.6kWh | 91.2kWh |
| <b>*6 Annual Energy Consumption (kWh)<br/>(Energy-Save-Mode)</b> | Eco > On     | 46.8kWh | 67.2kWh |

\*1 Measured according to IEC 62087 Ed. 2

\*2 For further information about the Energy Save function, please see related pages in this operation manual

\*3 Measured according to IEC 62301 Ed. 1

\*4 Measured according to IEC 62301 Ed. 1

\*5 Annual energy consumption is calculated on the basis of the On-Mode (Standard) power consumption, watching TV 4 hours a day, 365 days a year

\*6 Annual energy consumption is calculated on the basis of the Energy-Save-Mode power consumption, watching TV 4 hours a day, 365 days a year.

**NOTE**

- The power consumption of On-Mode varies depending on the images the TV displays.

**[2] OPERATION MANUAL****Remote Control****⏻ (POWER)**

Press to turn the LCD TV on or to enter standby mode.

**↶ (INPUT SOURCE)**

Press to select an input source.

**0-9 DIGIT BUTTONS**

Press to select a TV channel directly.

**EPG**

Press to display electronic programme guide when watching digital channels.

**PRE PR**

Press to display the previous selected TV channel.

**DTV/ATV**

Press to switch between ATV and DTV channels.

**PR LIST**

Press to display a list of channels. Then press **Red button** to select the digital or analogue channel list (only available when your input source is TV).

**ECO**

Press to set the picture with less brightness for saving energy.

**i+**

Press to display programme information, if available.

**⏮ (+/-)**

Press to adjust the volume.

**🔊**

Press to toggle audio on and off. You can also press **⏮ (+/-)** to restore the previous volume level.

**🖼 (Picture format)**

Press to select picture formats: **Auto / Normal / Zoom 1 / Zoom 2 / Wide**.

**P (^ / v)**

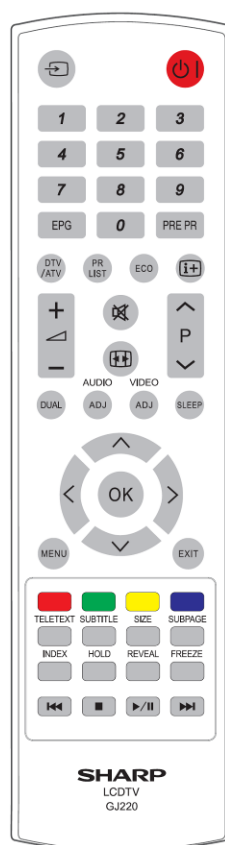
Press to select programme channel.

**DUAL**

Press to select **MONO / STEREO / DUAL I / DUAL II** for ATV channel. Press to select Audio language for DTV channel.

**AUDIO (ADJ)**

Press to set the LCD TV to a predefined sound setting: **Personal / Music / Speech**

**VIDEO (ADJ)**

Press to set the LCD TV to a predefined picture setting: **Personal / Standard / Vivid / Movie / Eco**

**SLEEP**

Press to turn the LCD TV off within an amount of time (10 ~ 120 minutes.)

**^ v < >**

Press to navigate and confirm your selection.

**OK**

Press to activate a setting.

**MENU**

Press to activate the LCD TV OSD.

**EXIT**

Press to exit the LCD TV OSD or return to the previous layer.

**R/G/Y/B (Colour Button)**

Press to select the pictures with various colours of text. Different channels display different functions.

**TELETEXT**

Press to activate Teletext. Press again to activate Teletext with TV. Press again to turn off Teletext.

**SUBTITLE**

For DTV, press to toggle off / between available subtitle languages.

For ATV, press to toggle off / between available subtitle pages in Teletext.

**SIZE**

Press to change the font size: Full screen, Top half, and Bottom half.

**SUBPAGE**

Press to select the subpage when the current page contains subpage(s).

**INDEX**

Press to return to page 100 or the index page; and then press 0 to 9. The teletext page will be numbered and added to the page you select or the secondary item.

**HOLD**

Press to stop the scrolling of pages. The text decoder stops receiving data.

**REVEAL**

Reveal hidden information such as answers to a quiz.

**FREEZE**

Press to freeze a moving image on the screen (only available when your input source is TV). The SCART output signal will also be frozen when you are watching digital channels.

**Caution:** Do not freeze the video image for long periods of time, as this may damage the LCD TV screen.

**In USB mode:**

(You need to programme the setting with remote control to control connected devices.)

**⏮**

Press to skip back to the previous title or track.

**■**

Press to stop playback.

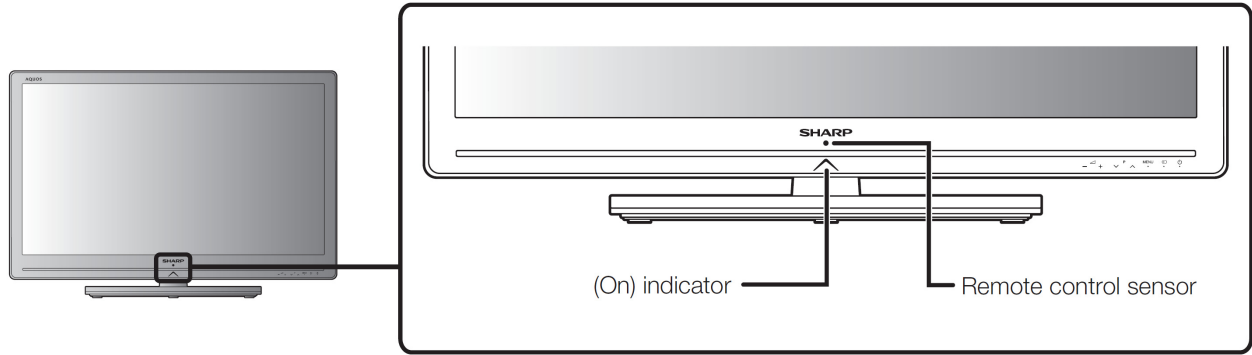
**▶/II**

Press to start/pause playback.

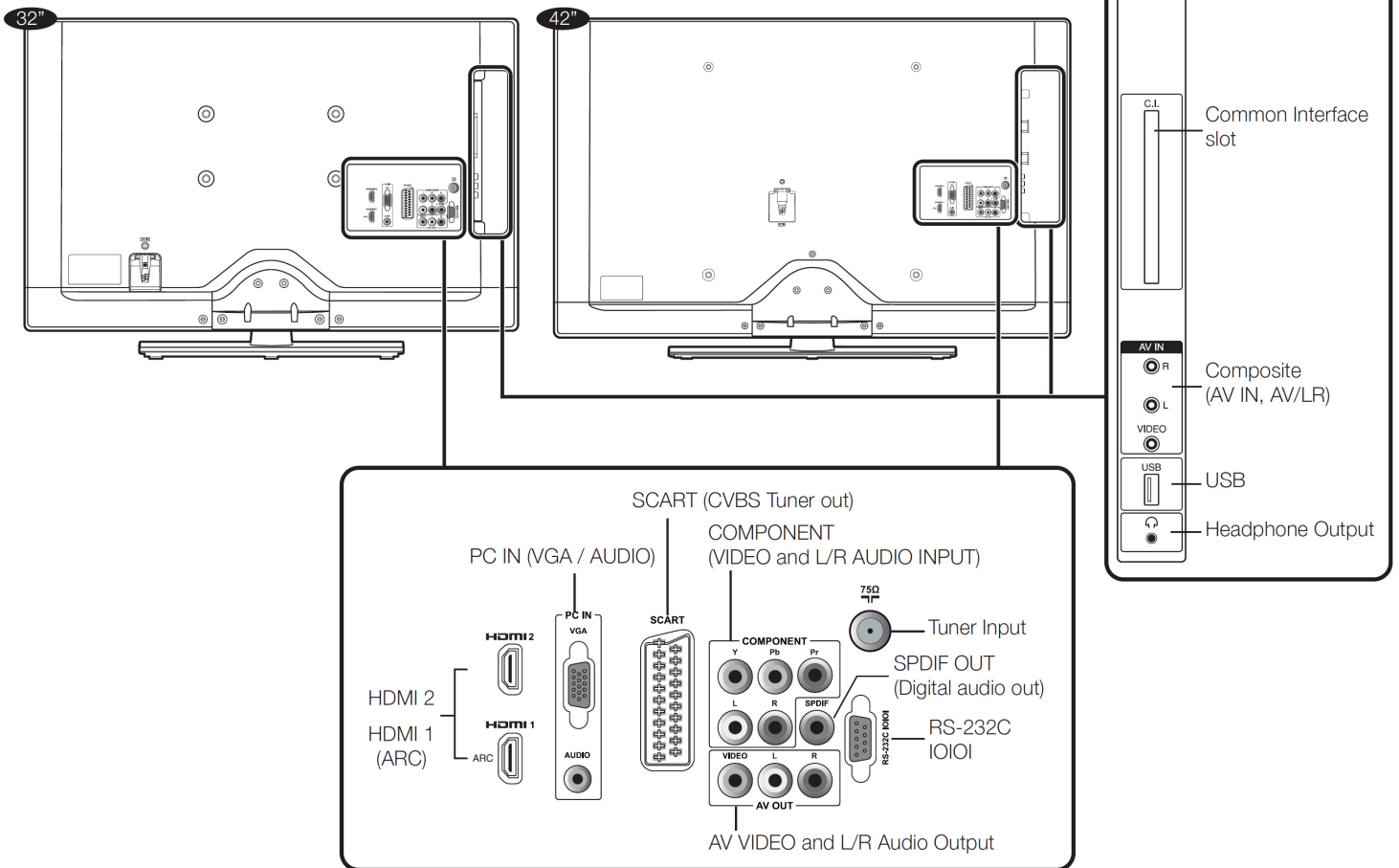
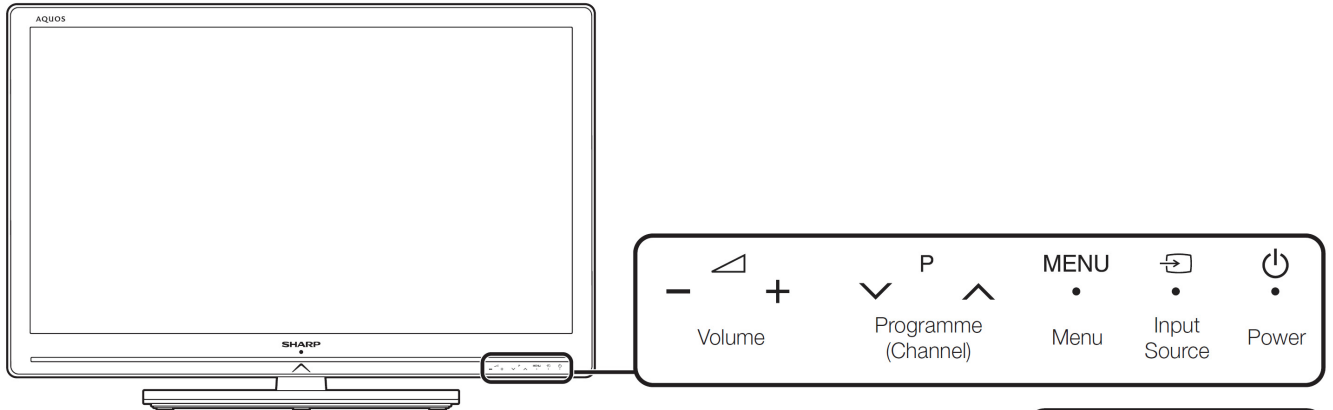
**▶▶**

Press to skip forward to the next title or track.

## TV (Front)

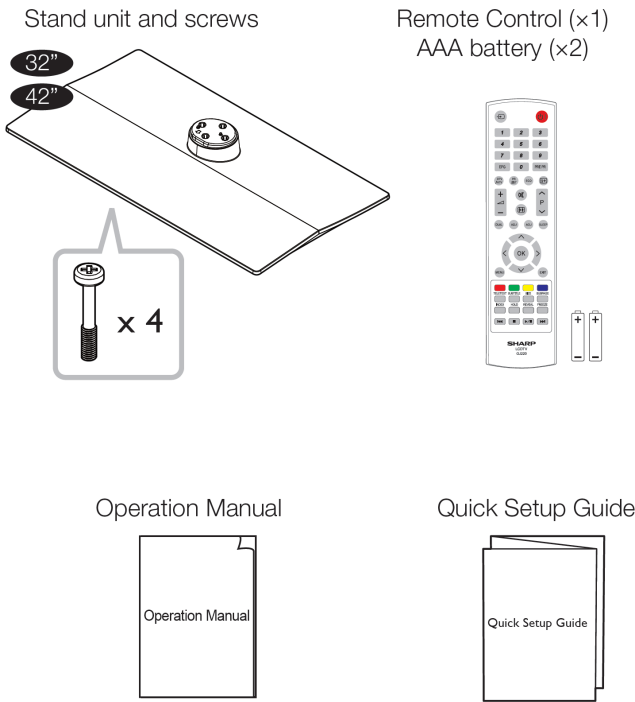


## TV (Side/Rear)

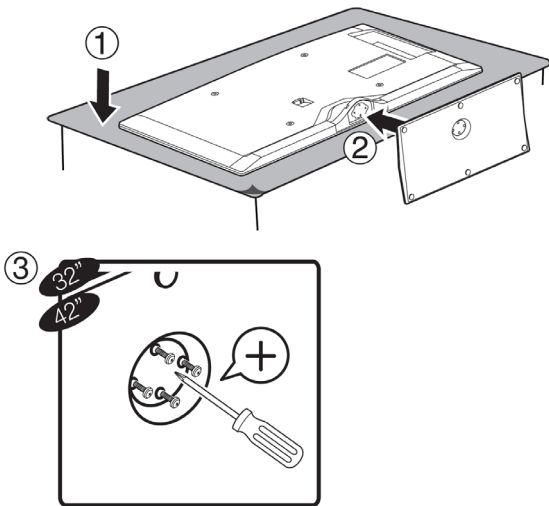


Preparation

Supplied Accessories



Mount the TV base



1. Put the TV with its face down on a safe surface covered by a soft and smooth cloth. 2. Adjust the TV base to the bottom of the TV. Please be sure the arrow heads are facing front.
3. Fasten the screws by using a cross-head screwdriver (not supplied).

NOTE

- To detach the TV stand, do these steps in reverse order.

Wall Mounting

| <div> <div>W</div> <div>H</div> </div> |                                      |                     |
|----------------------------------------|--------------------------------------|---------------------|
| TV screen size                         | VESA-compatible wall bracket (W x H) | Screw type (Metric) |
| 32"                                    | 200 x 100 mm                         | 4 x 10 mm           |
| 42"                                    | 400 x 400 mm                         | 4 x 10 mm           |

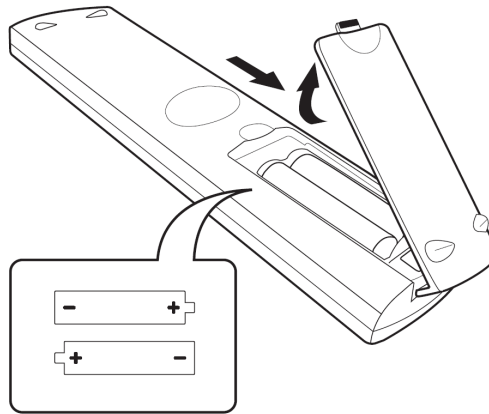
Note

- At the time of purchasing wall bracket, please check if there is enough space between the wall bracket and TV terminals for the terminal connection

## Preparation

### Installing Batteries in the Remote Control Unit

- 1 Insert two AAA batteries into remote control. Make sure the (k) and (l) ends are facing correct direction.
- 2 Replace the cover.



#### NOTE

- If you are not going to use the remote control for a long time, remove the batteries to avoid damaging remote control caused by chemical leakage.

#### CAUTION

Improper use of batteries can result in chemical leakage or explosion. Be sure to follow the instructions below:

- Do not mix batteries of different types. Different types of batteries have different characteristics.
- Do not mix old and new batteries. Mixing old and new batteries can shorten the life of new batteries or cause chemical leakage in old batteries.
- Remove batteries as soon as they have worn out. Chemicals that leak from batteries can cause a rash. If you find any chemical leakage, wipe thoroughly with a cloth.
- The batteries supplied with this product may have a shorter life expectancy due to storage conditions.

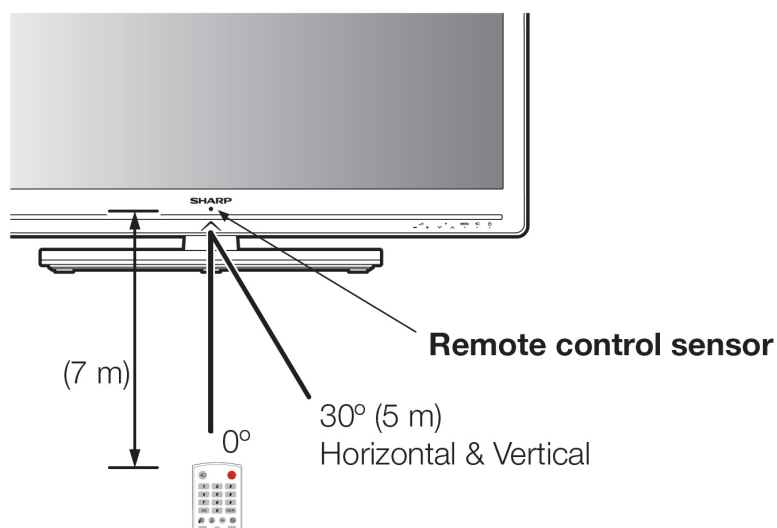
#### Note on disposing batteries:

The batteries provided contain no harmful materials such as cadmium, lead or mercury.

Regulations concerning used batteries stipulate that batteries may no longer be thrown out with the household rubbish. Deposit any used batteries free of charge into the designated collection containers set up at commercial businesses.

## Using the Remote Control Unit

Use the remote control unit by pointing it towards the remote control sensor. Objects between the remote control unit and sensor may block proper operation.



## Appendix

### Troubleshooting

| Problem                                                         | Possible Solution                                                                                                                                                                                                                       |
|-----------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| No picture                                                      | <ol style="list-style-type: none"> <li>1. Connect power cord correctly.</li> <li>2. Turn on power.</li> <li>3. Connect signal cable correctly.</li> <li>4. Press any button on the LCD TV.</li> </ol>                                   |
| Abnormal colours                                                | Connect signal cable correctly.                                                                                                                                                                                                         |
| Twisted picture                                                 | <ol style="list-style-type: none"> <li>1. Connect signal cable correctly.</li> <li>2. Please use compatible signal.</li> </ol>                                                                                                          |
| Picture too dark                                                | Adjust brightness and contrast.                                                                                                                                                                                                         |
| Audio only, no images                                           | <ol style="list-style-type: none"> <li>1. Please check if input signal is connected correctly.</li> <li>2. TV-RF signal must not be lower than 50dB.</li> </ol>                                                                         |
| Picture only, no audio                                          | <ol style="list-style-type: none"> <li>1. Connect signal cable correctly.</li> <li>2. Adjust volume to proper level.</li> <li>3. Connect audio signal cable correctly.</li> <li>4. TV-RF signal must not be lower than 50dB.</li> </ol> |
| Cannot use remote control                                       | <ol style="list-style-type: none"> <li>1. Please change battery.</li> <li>2. Turn off power for 10 seconds; and then restart power.</li> </ol>                                                                                          |
| Cannot receive sufficient channels through antenna              | Please use the Channel Scan function to increase the number of channels not included in memory.                                                                                                                                         |
| No colour                                                       | Please adjust the colour setup.                                                                                                                                                                                                         |
| Blinking picture accompanied by ghost image                     | <ol style="list-style-type: none"> <li>1. Check the connection of antenna/signal cable.</li> <li>2. Check if channel is in play mode.</li> <li>3. Press signal source and change input mode.</li> </ol>                                 |
| Broken lines or segments                                        | Adjust antenna.<br>Keep the TV away from noise sources, such as automobiles, neon lights, and hair dryers.                                                                                                                              |
| Certain TV channels are blocked (Hope to acquire some channels) | Please use the Update Scan method to add the channels not included in memory.                                                                                                                                                           |
| Overlapping images or ghost images                              | Please use multi-directional outdoor antenna.<br>(If your TV is subject to the influence of nearby mountains or buildings).                                                                                                             |
| Cannot use a function                                           | If the item you choose turns gray, that item cannot be selected.                                                                                                                                                                        |
| Cannot receive programmes                                       | Please use the Update Scan method to add the channels not included in memory.                                                                                                                                                           |

### Information on the Software License for This Product

#### Software composition

The software included in this product is comprised of various software components whose individual copyrights are held by SHARP or by third parties.

#### Software developed by SHARP and open source software

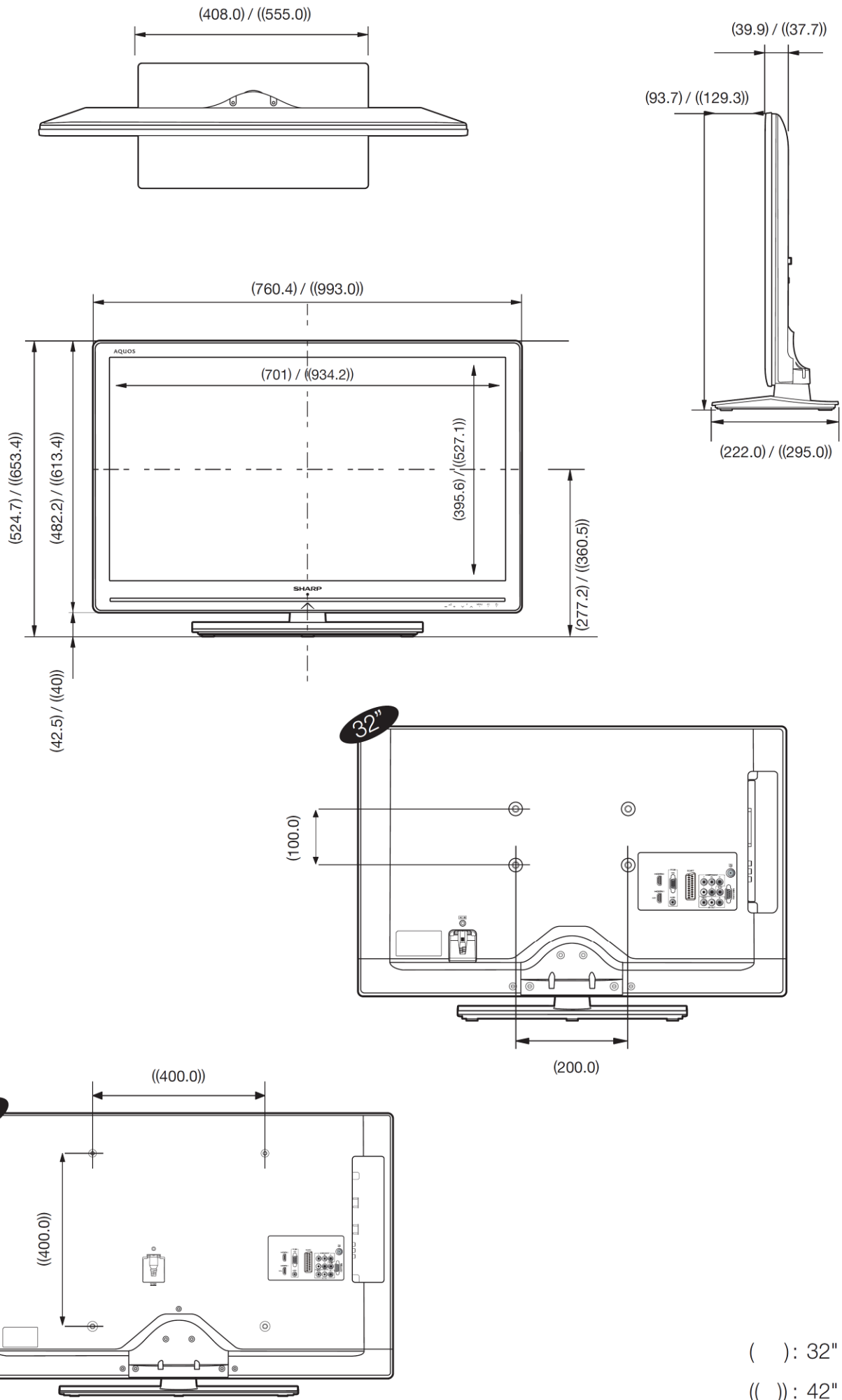
The copyrights for the software components and various relevant documents included with this product that were developed or written by SHARP are owned by SHARP and are protected by the Copyright Act, international treaties, and other relevant laws. This product also makes use of freely distributed software and software components whose copyrights are held by third parties. These include software components covered by a GNU General Public License (hereafter GPL), a GNU Lesser General Public License (hereafter LGPL) or other license agreement.

#### Acknowledgements

The following open source software components are included in this product:

Linux kernel/Modutils/Glibc/Zlib/Libpng

### [3] DIMENSIONS





## CHAPTER 2. REMOVING OF MAJOR PARTS

### [1] ASSY/PANEL REMOVAL

#### LC-32LE40E

Note: Put the TV face down on a safe surface that is covered by a soft and smooth cloth to avoid damaging LCD Panel.

Front View



Fig 1

Back View



Fig 2

Step 1. Remove the base.

A. Remove 3 screws as fig 3 and put out the base.



Fig 3



B. Remove 4 screws as Fig 4 to detach the stand.

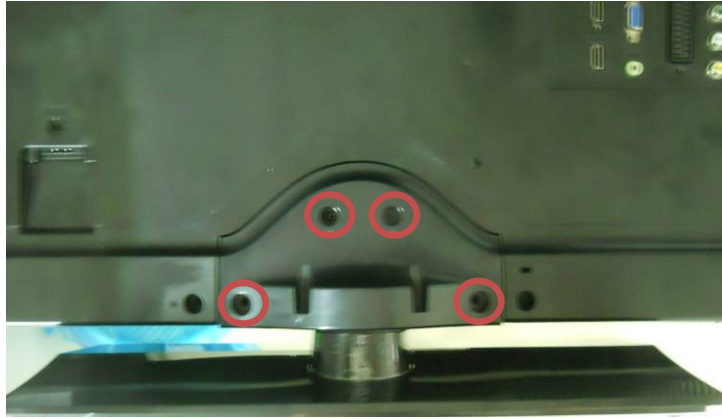


Fig 4

Step 2. Remove the rear cover.  
Remove 16 screws as Fig 5

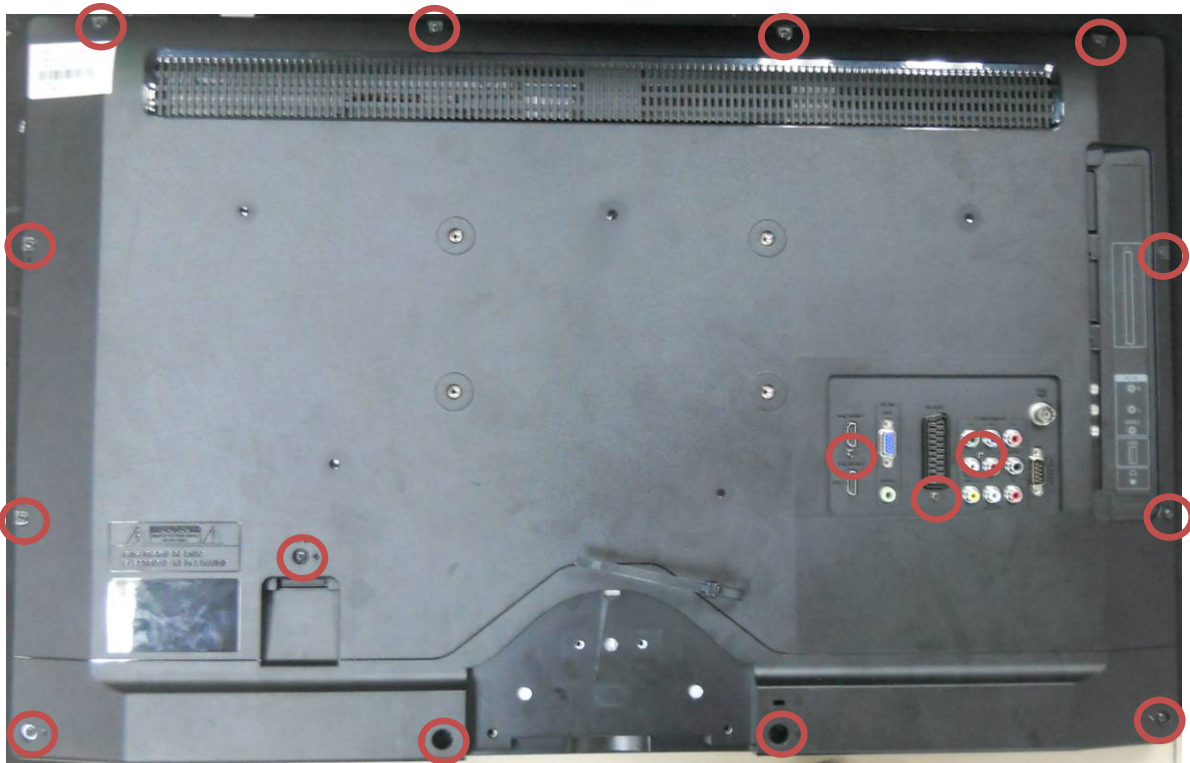


Fig 5

Step 3. Remove the bkt\_stand.  
Remove 4 screws as Fig 6

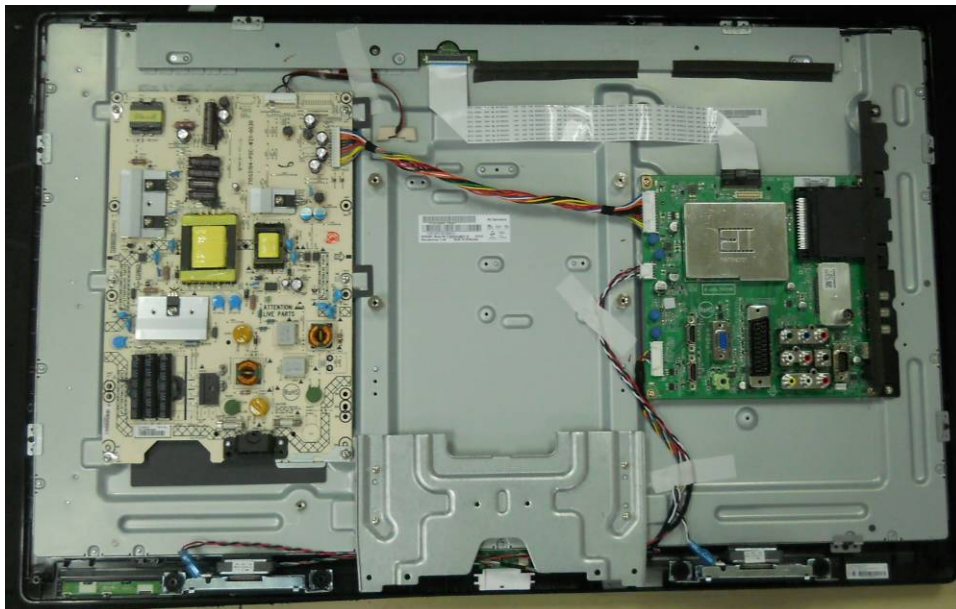




Fig 6

Step 4. Remove the power board.  
Remove 6 screws and unplug 2 cables as Fig 7

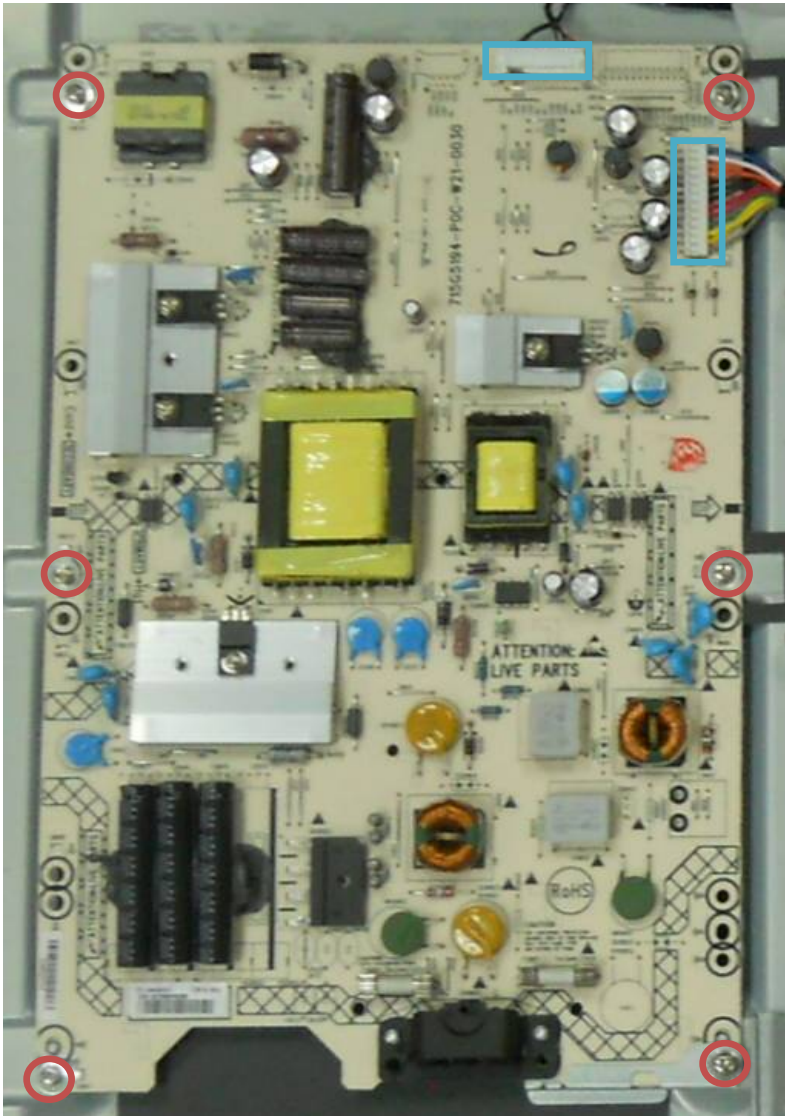


Fig 7

Step 5. Remove the scaler board.

Remove 6 screws and unplug 4 cables as Fig 8

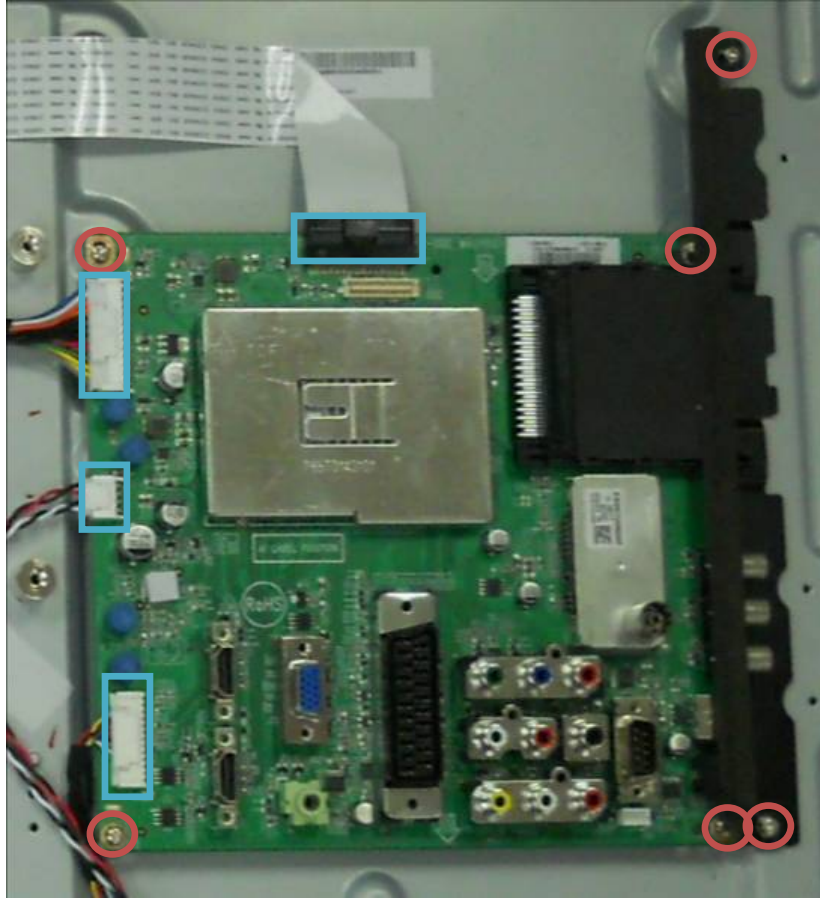


Fig 8

Step 6. Remove the speakers(L/R).

Remove as Fig 9 and Fig 10

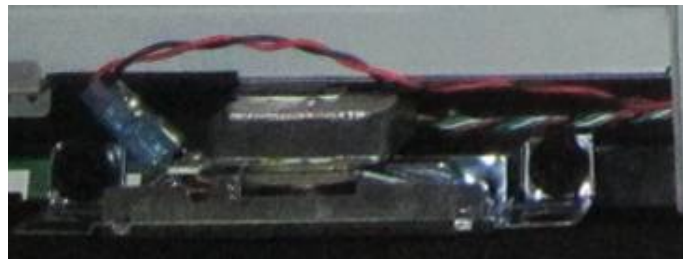


Fig 9



Fig 10



## LC-32LE40E-LC-42LE40E

Step 7. Remove the bkt\_panel and separate the panel and bezel.

Remove 10 screws as Fig 11

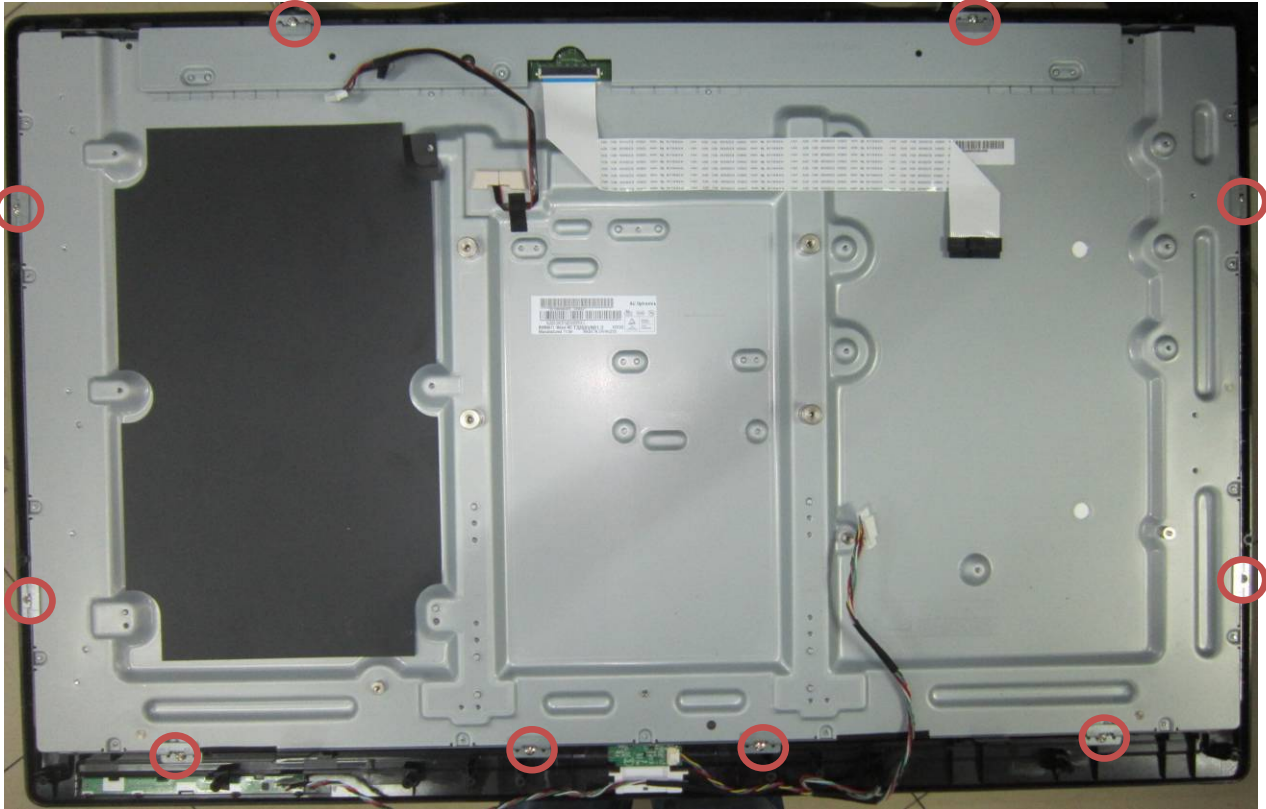


Fig 11

Step 8. Bezel assy.

The bezel assy as Fig 12



Fig 12

**LC-42LE40E**

Note: Put the TV face down on a safe surface that is covered by a soft and smooth cloth to avoid damaging LCD Panel.

Front View



Fig 1

Back View



Fig 2

Step 1. Remove the base.

A. Remove 4 screws as fig 3 and put out the base.



Fig 3

## LC-32LE40E-LC-42LE40E

B. Remove 4 screws as Fig 4 to detach the stand.

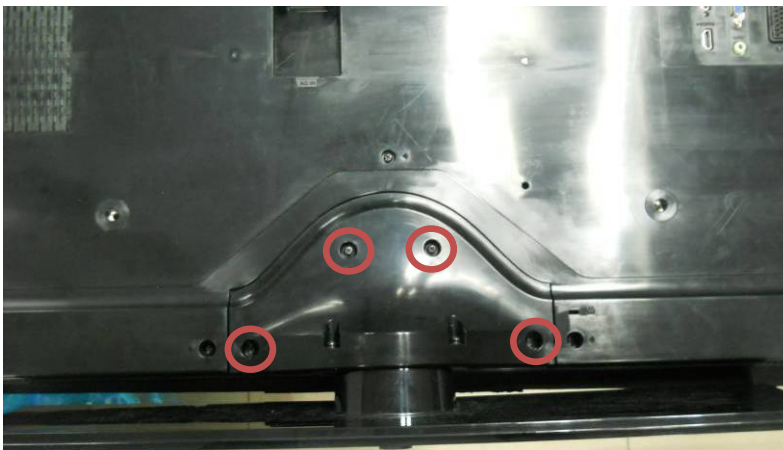


Fig 4

Step 2. Remove the rear cover.  
Remove 19 screws as Fig 5

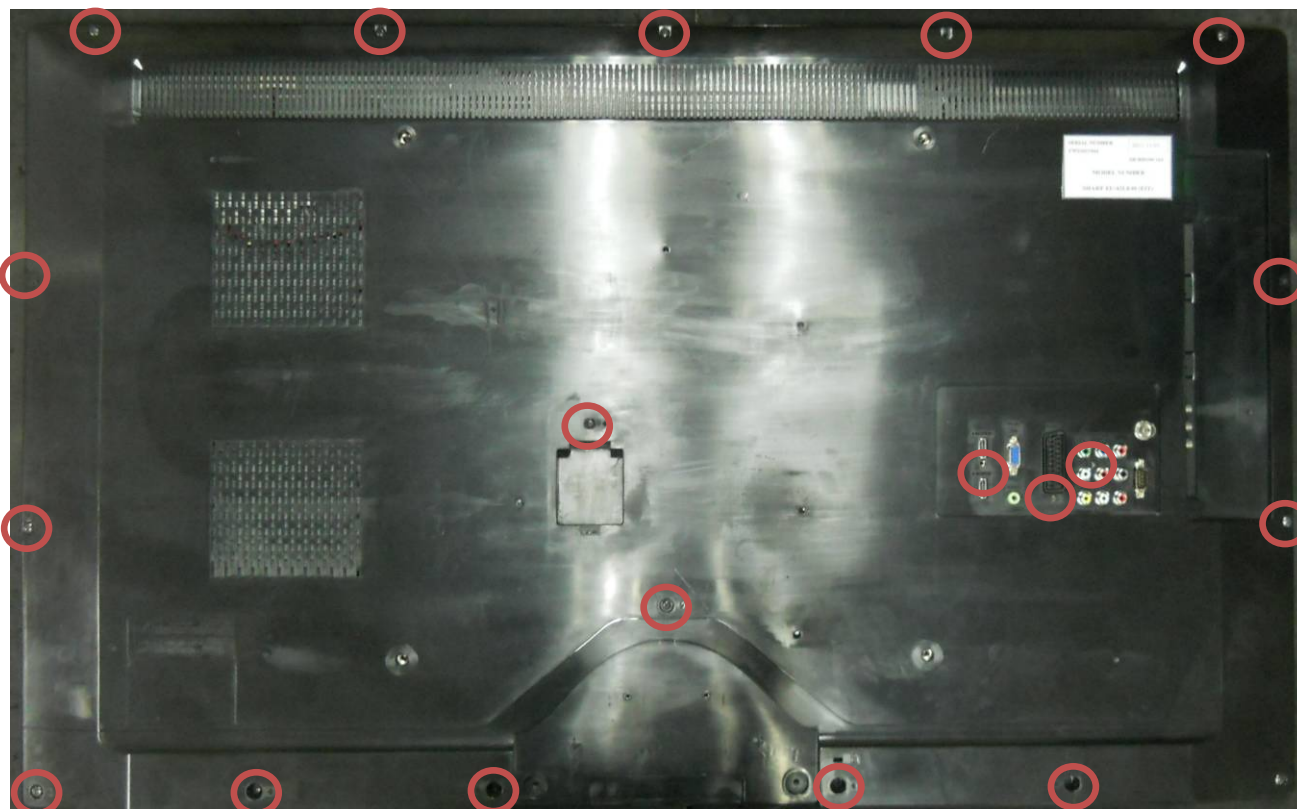


Fig 5

Step 3. Remove the bkt\_stand.  
Remove 4 screws as Fig 6





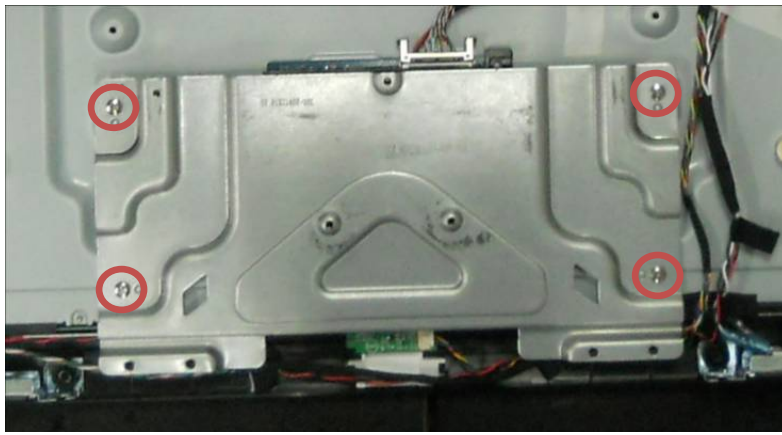


Fig 6

Step 4. Remove the power board.  
Remove 6 screws and unplug 2 cables as Fig 7

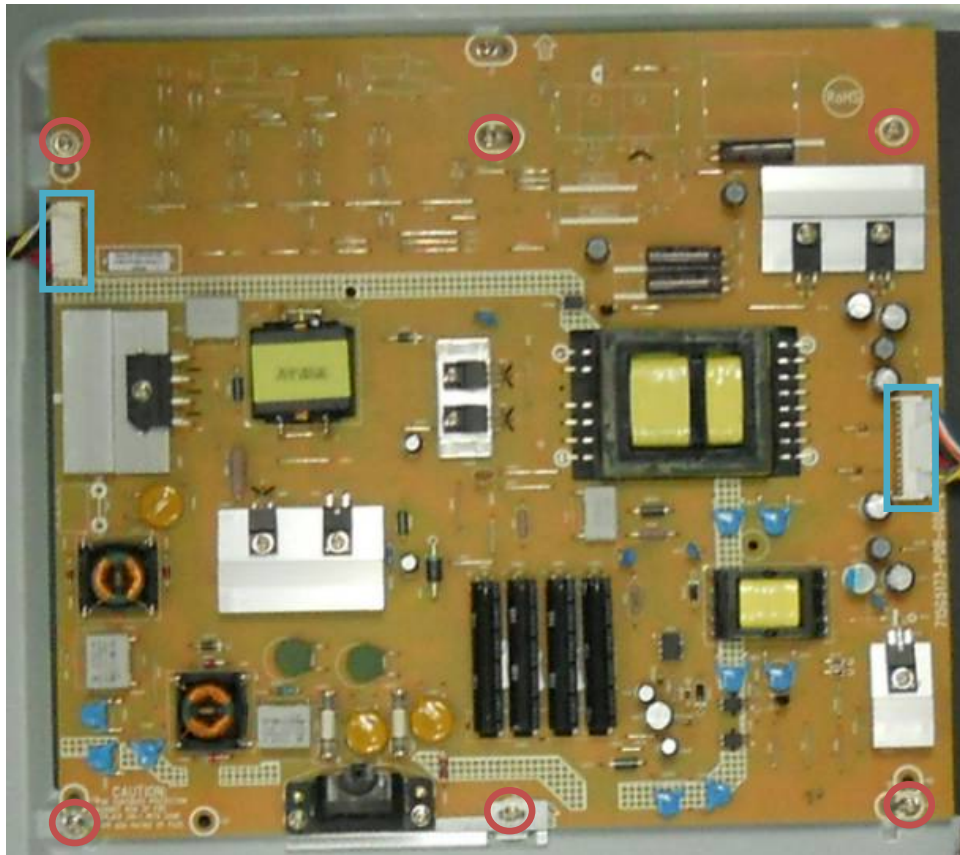


Fig 7

## LC-32LE40E-LC-42LE40E

Step 5. Remove the scaler board.

Remove 6 screws and unplug 4 cables as Fig 8



Fig 8

Step 6. Remove the speakers(L/R).

Remove as Fig 9 and Fig 10



Fig 9



Fig 10



Step 7. Remove the bkt\_panel and separate the panel and bezel.  
Remove 11 screws as Fig 11

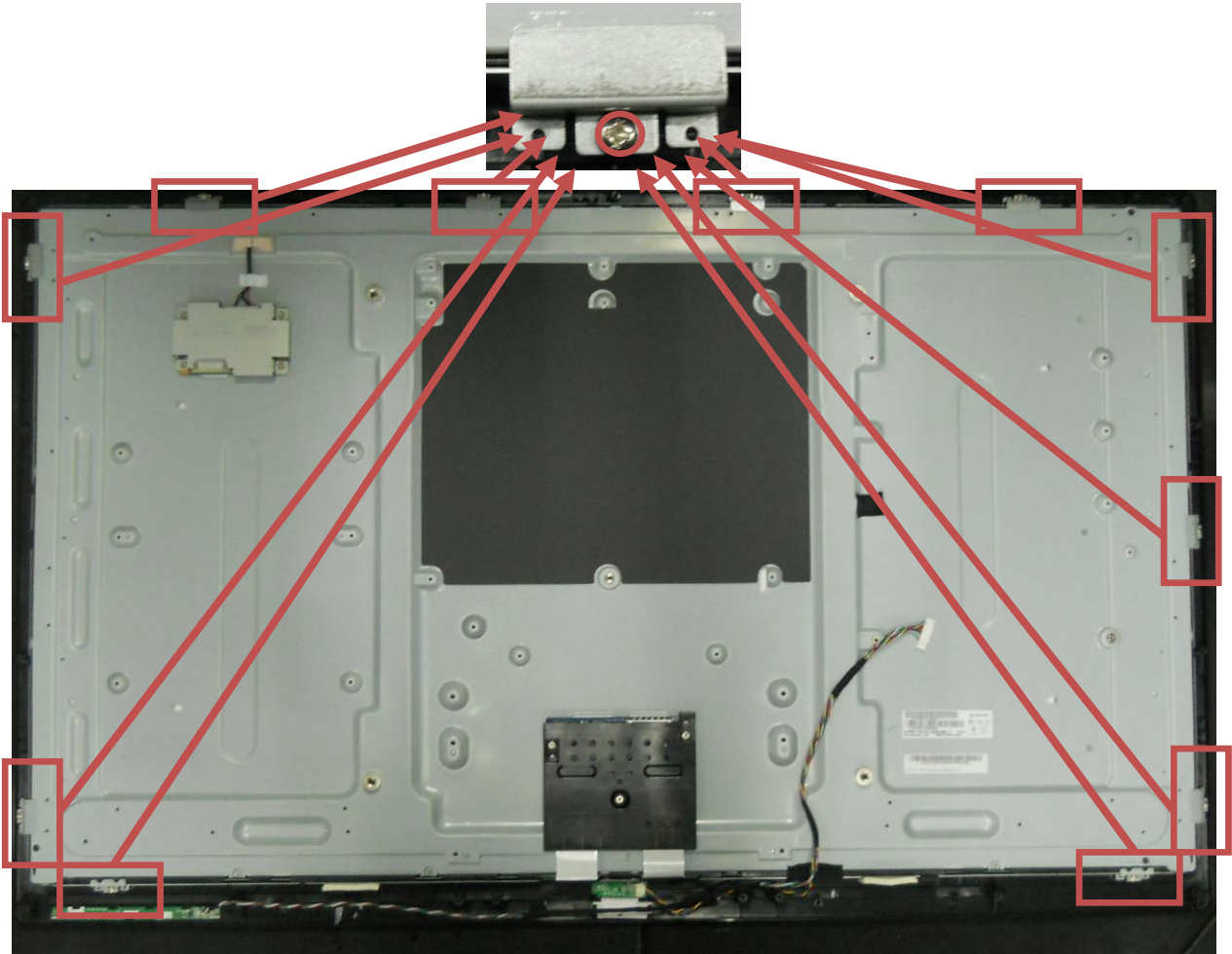


Fig 11

Step 8. Bezel assy.  
The bezel assy as Fig 12



Fig 12

## **[2] SET RE-ASSEMBLY**

To re-assemble the whole set, execute all processes in reverse order.

### **Note**

- a. While re-assembling, make sure that all cables are placed and connected in their original position.
- b. Pay special attention not to damage the EMC foams at the SSB shielding. Check that EMC foams are put correctly on their places.

# CHAPTER 3. ADJUSTMENT PROCEDURE

## [1] ADJUSTMENT PROCEDURE

### 1. OSD Menu

OSD tree - As following

| Sharp DVB OSD tree-Video |                                                                       |                                                |           |           |   |      |              |
|--------------------------|-----------------------------------------------------------------------|------------------------------------------------|-----------|-----------|---|------|--------------|
| OSD Layer 1              | 2                                                                     | 3                                              | 4         | 5         | 6 | Note | Model Number |
| Picture                  | Smart Picture                                                         | Personal                                       |           |           |   |      | All          |
|                          |                                                                       | Standard                                       |           |           |   |      | All          |
|                          |                                                                       | Vivid                                          |           |           |   |      | All          |
|                          |                                                                       | Movie                                          |           |           |   |      | All          |
|                          |                                                                       | Eco                                            |           |           |   |      | All          |
|                          | Brightness                                                            | slider                                         |           |           |   |      | All          |
|                          | Contrast                                                              | slider                                         |           |           |   |      | All          |
|                          | Color                                                                 | slider                                         |           |           |   |      | All          |
|                          | Tint                                                                  | slider                                         |           |           |   |      | All          |
|                          | Sharpness                                                             | slider                                         |           |           |   |      | All          |
|                          | Color Temperature                                                     | Normal                                         | (default) |           |   |      | All          |
|                          |                                                                       | Cool                                           |           |           |   |      | All          |
|                          |                                                                       | Warm                                           |           |           |   |      | All          |
|                          | Advanced Control(have sub page)                                       | Noise Reduction                                | Off       |           |   |      | All          |
|                          |                                                                       |                                                | Low       |           |   |      | All          |
|                          |                                                                       |                                                | Medium    |           |   |      | All          |
|                          |                                                                       |                                                | HIGH      |           |   |      | All          |
|                          |                                                                       |                                                | Auto      |           |   |      | All          |
|                          |                                                                       | Flesh Tone                                     | On        |           |   |      | All          |
|                          |                                                                       |                                                | Off       |           |   |      | All          |
|                          |                                                                       | Back Light(if DCR is Off)                      | slider    |           |   |      | All          |
|                          |                                                                       | DCR                                            | On        |           |   |      | All          |
|                          |                                                                       |                                                | Off       |           |   |      | All          |
|                          |                                                                       | C.M.S.-value                                   |           |           |   |      |              |
|                          |                                                                       | Advanced (Only for 32"37"42"LE320 100Hz model) | Mode      | 100Hz     |   |      | All          |
|                          |                                                                       |                                                |           | Film Mode |   |      | All          |
|                          |                                                                       |                                                | Effect    | Off       |   |      | All          |
|                          |                                                                       |                                                |           | Low       |   |      | All          |
|                          |                                                                       |                                                |           | Middle    |   |      | All          |
|                          |                                                                       |                                                |           | High      |   |      | All          |
| Sound                    | Sound Mode                                                            | Personal                                       |           |           |   |      | All          |
|                          |                                                                       | Music                                          |           |           |   |      | All          |
|                          |                                                                       | Speech                                         |           |           |   |      | All          |
|                          | Equalizer 120Hz                                                       | slider                                         |           |           |   |      | All          |
|                          | Equalizer 500Hz                                                       | slider                                         |           |           |   |      | All          |
|                          | Equalizer 1.5KHz                                                      | slider                                         |           |           |   |      | All          |
|                          | Equalizer 5KHz                                                        | slider                                         |           |           |   |      | All          |
|                          | Equalizer 10KHz                                                       | slider                                         |           |           |   |      | All          |
|                          | Balance                                                               | slider                                         |           |           |   |      | All          |
|                          | Virtual Surround                                                      | On                                             |           |           |   |      | All          |
|                          |                                                                       | Off                                            |           |           |   |      | All          |
|                          | Digital Audio Out (If source is HDMI. This function will be disable ) | PCM                                            |           |           |   |      | All          |
|                          |                                                                       | Off                                            |           |           |   |      | All          |
|                          |                                                                       | Dolby Digital                                  |           |           |   |      | All          |
|                          | AVL                                                                   | Off                                            |           |           |   |      | All          |
|                          |                                                                       | On                                             |           |           |   |      | All          |
|                          | Type(if source is                                                     | Normal                                         |           |           |   |      | All          |

|    |                                              |                   |        |  |  |  |     |
|----|----------------------------------------------|-------------------|--------|--|--|--|-----|
|    | DTV)                                         | Hard of Hearing   |        |  |  |  | All |
|    |                                              | Audio Description |        |  |  |  | All |
|    | Audio Description(if Type=Audio Description) | Volume            | slider |  |  |  | All |
|    |                                              |                   |        |  |  |  |     |
|    |                                              |                   |        |  |  |  | All |
|    |                                              |                   |        |  |  |  | All |
| TV | Tuner Mode                                   | Antenna           |        |  |  |  | All |
|    |                                              | Cable             |        |  |  |  | All |
|    | Country(31)                                  | UK                |        |  |  |  | All |
|    |                                              | Italy             |        |  |  |  | All |
|    |                                              | Luxembourg        |        |  |  |  | All |
|    |                                              | Netherlands       |        |  |  |  | All |
|    |                                              | Norway            |        |  |  |  | All |
|    |                                              | Sweden            |        |  |  |  | All |
|    |                                              | Croatia           |        |  |  |  | All |
|    |                                              | Hungary           |        |  |  |  | All |
|    |                                              | Ireland           |        |  |  |  | All |
|    |                                              | Poland            |        |  |  |  | All |
|    |                                              | Portugal          |        |  |  |  | All |
|    |                                              | Romania           |        |  |  |  | All |
|    |                                              | Serbia            |        |  |  |  | All |
|    |                                              | Slovakia          |        |  |  |  | All |
|    |                                              | Slovenia          |        |  |  |  | All |
|    |                                              | Turkey            |        |  |  |  | All |
|    |                                              | Iceland           |        |  |  |  | All |
|    |                                              | Russia            |        |  |  |  | All |
|    |                                              | Ukraine           |        |  |  |  | All |
|    |                                              | Austria           |        |  |  |  | All |
|    |                                              | Belgium           |        |  |  |  | All |
|    |                                              | Bulgaria          |        |  |  |  | All |
|    |                                              | Switzerland       |        |  |  |  | All |
|    |                                              | Czech Republic    |        |  |  |  | All |
|    |                                              | Germany           |        |  |  |  | All |
|    |                                              | Greece            |        |  |  |  | All |
|    |                                              | Denmark           |        |  |  |  | All |
|    |                                              | Spain             |        |  |  |  | All |
|    |                                              | Finland           |        |  |  |  | All |
|    |                                              | France            |        |  |  |  | All |
|    |                                              | Other             |        |  |  |  | All |
|    | 1st Audio(28)(DTV only)                      | English           |        |  |  |  | All |
|    |                                              | Finnish           |        |  |  |  | All |
|    |                                              | French            |        |  |  |  | All |
|    |                                              | Gaelic            |        |  |  |  | All |
|    |                                              | Galician          |        |  |  |  | All |
|    |                                              | German            |        |  |  |  | All |
|    |                                              | Greek             |        |  |  |  | All |
|    |                                              | Hungarian         |        |  |  |  | All |
|    |                                              | Italian           |        |  |  |  | All |
|    |                                              | Norwegian         |        |  |  |  | All |
|    |                                              | Polish            |        |  |  |  | All |
|    |                                              | Portuguese        |        |  |  |  | All |
|    |                                              | Romanian          |        |  |  |  | All |
|    |                                              | Russian           |        |  |  |  | All |
|    |                                              | Serbian           |        |  |  |  | All |

|  |                               |              |                                        |                             |                                                                                                                  |  |     |
|--|-------------------------------|--------------|----------------------------------------|-----------------------------|------------------------------------------------------------------------------------------------------------------|--|-----|
|  |                               | Slovak       |                                        |                             |                                                                                                                  |  | All |
|  |                               | Slovenian    |                                        |                             |                                                                                                                  |  | All |
|  |                               | Spanish      |                                        |                             |                                                                                                                  |  | All |
|  |                               | Swedish      |                                        |                             |                                                                                                                  |  | All |
|  |                               | Turkish      |                                        |                             |                                                                                                                  |  | All |
|  |                               | Welsh        |                                        |                             |                                                                                                                  |  | All |
|  |                               | Basque       |                                        |                             |                                                                                                                  |  | All |
|  |                               | Bulgarian    |                                        |                             |                                                                                                                  |  | All |
|  |                               | Catalan      |                                        |                             |                                                                                                                  |  | All |
|  |                               | Croatian     |                                        |                             |                                                                                                                  |  | All |
|  |                               | Czech        |                                        |                             |                                                                                                                  |  | All |
|  |                               | Danish       |                                        |                             |                                                                                                                  |  | All |
|  |                               | Dutch        |                                        |                             |                                                                                                                  |  | All |
|  | 2nd<br>Audio(28)(DTV<br>only) | English      |                                        |                             |                                                                                                                  |  | All |
|  |                               | Finnish      |                                        |                             |                                                                                                                  |  | All |
|  |                               | French       |                                        |                             |                                                                                                                  |  | All |
|  |                               | Gaelic       |                                        |                             |                                                                                                                  |  | All |
|  |                               | Galician     |                                        |                             |                                                                                                                  |  | All |
|  |                               | German       |                                        |                             |                                                                                                                  |  | All |
|  |                               | Greek        |                                        |                             |                                                                                                                  |  | All |
|  |                               | Hungarian    |                                        |                             |                                                                                                                  |  | All |
|  |                               | Italian      |                                        |                             |                                                                                                                  |  | All |
|  |                               | Norwegian    |                                        |                             |                                                                                                                  |  | All |
|  |                               | Polish       |                                        |                             |                                                                                                                  |  | All |
|  |                               | Portuguese   |                                        |                             |                                                                                                                  |  | All |
|  |                               | Romanian     |                                        |                             |                                                                                                                  |  | All |
|  |                               | Russian      |                                        |                             |                                                                                                                  |  | All |
|  |                               | Serbian      |                                        |                             |                                                                                                                  |  | All |
|  |                               | Slovak       |                                        |                             |                                                                                                                  |  | All |
|  |                               | Slovenian    |                                        |                             |                                                                                                                  |  | All |
|  |                               | Spanish      |                                        |                             |                                                                                                                  |  | All |
|  |                               | Swedish      |                                        |                             |                                                                                                                  |  | All |
|  |                               | Turkish      |                                        |                             |                                                                                                                  |  | All |
|  |                               | Welsh        |                                        |                             |                                                                                                                  |  | All |
|  |                               | Basque       |                                        |                             |                                                                                                                  |  | All |
|  |                               | Bulgarian    |                                        |                             |                                                                                                                  |  | All |
|  |                               | Catalan      |                                        |                             |                                                                                                                  |  | All |
|  |                               | Croatian     |                                        |                             |                                                                                                                  |  | All |
|  |                               | Czech        |                                        |                             |                                                                                                                  |  | All |
|  |                               | Danish       |                                        |                             |                                                                                                                  |  | All |
|  |                               | Dutch        |                                        |                             |                                                                                                                  |  | All |
|  | Channels(have<br>sub page)    | Channel Scan | ATV                                    | Status:<br>scanning...      |                                                                                                                  |  | All |
|  |                               |              |                                        | Analogue<br>channels:       |                                                                                                                  |  | All |
|  |                               |              | ATV and<br>DTV( if<br>Antenna<br>mode) | Status:<br>scanning...      |                                                                                                                  |  | All |
|  |                               |              |                                        | Analogue<br>channels:       |                                                                                                                  |  | All |
|  |                               |              |                                        | Digital<br>channels:        |                                                                                                                  |  | All |
|  |                               |              | ATV and<br>DTV( if Cable<br>mode)      | Scan Mode                   | Full/Quick/Advanced<br>(There is Quick<br>selection if<br>country is<br>selected<br>Germany, Finland,<br>Norway) |  | All |
|  |                               |              |                                        | (if Advance<br>mode select) | Frequency(KHz)                                                                                                   |  | All |



|          |                      |                                                     |                                                  |                   |                                                  |  |     |
|----------|----------------------|-----------------------------------------------------|--------------------------------------------------|-------------------|--------------------------------------------------|--|-----|
| Features |                      |                                                     |                                                  |                   | Modulation<br>=>Auto/16/32/<br>64/128/256<br>QAM |  | All |
|          |                      |                                                     |                                                  |                   | Symbol<br>Rate(Ksym/s)                           |  | All |
|          |                      |                                                     |                                                  |                   | Network ID                                       |  | All |
|          |                      |                                                     |                                                  | Scan              | Status:<br>scanning...                           |  | All |
|          |                      |                                                     |                                                  |                   | Analogue<br>channels:                            |  | All |
|          |                      |                                                     |                                                  |                   | Digital<br>channels:                             |  | All |
|          |                      | Update Scan( Only<br>available for<br>Antenna mode) | Status:<br>scanning...                           |                   |                                                  |  | All |
|          |                      |                                                     | Analogue<br>channels:                            |                   |                                                  |  | All |
|          |                      |                                                     | Digital<br>channels:                             |                   |                                                  |  | All |
|          |                      | Single RF Scan( if<br>Antenna mode)                 | RF Channel ..                                    | slider            |                                                  |  | All |
|          |                      |                                                     | Signal<br>Strength..                             |                   |                                                  |  | All |
|          |                      |                                                     | Signal<br>Quality..                              |                   |                                                  |  | All |
|          |                      | Single RF Scan( if<br>Cable mode)                   | Frequency(KH<br>z)                               | slider            |                                                  |  | All |
|          |                      |                                                     | Modulation<br>=>Auto/16/32/<br>64/128/256<br>QAM |                   |                                                  |  | All |
|          |                      |                                                     | Symbol<br>Rate(Ksym/s)                           |                   |                                                  |  | All |
|          |                      |                                                     | Signal<br>Strength..                             |                   |                                                  |  | All |
|          |                      | Analog Manual Scan                                  | Start<br>Frequency                               | xxMHz             |                                                  |  | All |
|          |                      |                                                     | Scan Up                                          |                   |                                                  |  | All |
|          |                      |                                                     | Scan Down                                        |                   |                                                  |  | All |
|          |                      | Favorite Network<br>Select                          |                                                  |                   |                                                  |  | All |
|          |                      | Channel Skip(have<br>sub page)                      | (Channel<br>munber...)                           |                   |                                                  |  | All |
|          |                      | Channel Sort                                        | Numerical<br>Order                               |                   |                                                  |  |     |
|          |                      |                                                     | Alphabetical<br>Order                            |                   |                                                  |  | All |
|          |                      | Channel Move(have<br>sub page)                      | (Channel<br>munber...)                           |                   |                                                  |  |     |
|          |                      | Channel Edit(have<br>sub page)                      | (Channel<br>munber...)                           |                   |                                                  |  | All |
|          |                      | Decoder(for ATV)                                    | (Channel<br>munber...)                           |                   |                                                  |  | All |
|          |                      | Analog Ch Fine<br>Tune                              | (Channel<br>munber...)<br>(have sub<br>page)     | (do fine<br>tune) |                                                  |  | All |
|          |                      | Clean Channel List                                  |                                                  |                   |                                                  |  | All |
| Features | Menu<br>Language(29) | English                                             |                                                  |                   |                                                  |  | All |
|          |                      | Deutsch                                             |                                                  |                   |                                                  |  | All |
|          |                      | Français                                            |                                                  |                   |                                                  |  | All |
|          |                      | Italiano                                            |                                                  |                   |                                                  |  | All |
|          |                      | Español                                             |                                                  |                   |                                                  |  | All |
|          |                      | Português                                           |                                                  |                   |                                                  |  | All |
|          |                      | Nederlands                                          |                                                  |                   |                                                  |  | All |
|          |                      | Български                                           |                                                  |                   |                                                  |  | All |
|          |                      | Dansk                                               |                                                  |                   |                                                  |  | All |
|          |                      | Suomi                                               |                                                  |                   |                                                  |  | All |
|          |                      | Svenska                                             |                                                  |                   |                                                  |  | All |
|          |                      | Norsk                                               |                                                  |                   |                                                  |  | All |
|          |                      | Polski                                              |                                                  |                   |                                                  |  | All |
|          |                      | Русский                                             |                                                  |                   |                                                  |  | All |

|  |                                |              |                |  |  |  |     |
|--|--------------------------------|--------------|----------------|--|--|--|-----|
|  |                                | Česky        |                |  |  |  | All |
|  |                                | Hrvatski     |                |  |  |  | All |
|  |                                | Magyar       |                |  |  |  | All |
|  |                                | Română       |                |  |  |  | All |
|  |                                | Slovenský    |                |  |  |  | All |
|  |                                | Slovenščina  |                |  |  |  | All |
|  |                                | Srpski       |                |  |  |  | All |
|  |                                | Türkçe       |                |  |  |  | All |
|  |                                | Ελληνικά     |                |  |  |  | All |
|  |                                | Gaeilge      |                |  |  |  | All |
|  |                                | Latviski     |                |  |  |  | All |
|  |                                | Eesti        |                |  |  |  | All |
|  |                                | Lietuviskai  |                |  |  |  | All |
|  |                                | українська   |                |  |  |  | All |
|  |                                | Byelorussian |                |  |  |  | All |
|  | 4:3 mode                       | 4:3          |                |  |  |  | All |
|  |                                | 16:9         |                |  |  |  | All |
|  | Picture Format(if video exist) | Auto         |                |  |  |  | All |
|  |                                | Normal       |                |  |  |  | All |
|  |                                | Zoom1        |                |  |  |  | All |
|  |                                | Zoom2        |                |  |  |  | All |
|  |                                | Wide         |                |  |  |  | All |
|  | Time (have sub page )          | Time Zone    | As Broadcaster |  |  |  | All |
|  |                                |              | GMT +0:00      |  |  |  | All |
|  |                                |              | GMT +1:00      |  |  |  | All |
|  |                                |              | GMT +2:00      |  |  |  | All |
|  |                                |              | GMT +3:00      |  |  |  | All |
|  |                                |              | GMT +3:30      |  |  |  | All |
|  |                                |              | GMT +4:00      |  |  |  | All |
|  |                                |              | GMT +4:30      |  |  |  | All |
|  |                                |              | GMT +5:00      |  |  |  | All |
|  |                                |              | GMT +5:30      |  |  |  | All |
|  |                                |              | GMT +5:45      |  |  |  | All |
|  |                                |              | GMT +6:00      |  |  |  | All |
|  |                                |              | GMT +6:30      |  |  |  | All |
|  |                                |              | GMT +7:00      |  |  |  | All |
|  |                                |              | GMT +8:00      |  |  |  | All |
|  |                                |              | GMT +9:00      |  |  |  | All |
|  |                                |              | GMT +9:30      |  |  |  | All |
|  |                                |              | GMT +10:00     |  |  |  | All |
|  |                                |              | GMT +11:00     |  |  |  | All |
|  |                                |              | GMT +12:00     |  |  |  | All |
|  |                                |              | GMT +12:45     |  |  |  | All |
|  |                                |              | GMT +13:00     |  |  |  | All |
|  |                                |              | GMT -12:00     |  |  |  | All |
|  |                                |              | GMT -11:00     |  |  |  | All |
|  |                                |              | GMT -10:00     |  |  |  | All |
|  |                                |              | GMT -9:00      |  |  |  | All |
|  |                                |              | GMT -8:00      |  |  |  | All |
|  |                                |              | GMT -7:00      |  |  |  | All |
|  |                                |              | GMT -6:00      |  |  |  | All |
|  |                                |              | GMT -5:00      |  |  |  | All |
|  |                                |              | GMT -4:00      |  |  |  | All |
|  |                                |              | GMT -3:30      |  |  |  | All |
|  |                                |              | GMT -3:00      |  |  |  | All |

|           |                         |                                                         |                |                                 |  |     |     |     |
|-----------|-------------------------|---------------------------------------------------------|----------------|---------------------------------|--|-----|-----|-----|
|           |                         |                                                         | GMT -2:00      |                                 |  |     | All |     |
|           |                         |                                                         | GMT -1:00      |                                 |  |     |     | All |
|           |                         | Time(have sub page)                                     |                | Auto synchronizatio n ( On/Off) |  |     |     | All |
|           |                         |                                                         |                | Date ( 20xx/xx/xx )             |  |     |     | All |
|           |                         |                                                         |                | Time ( xx:xx:xx)                |  |     |     | All |
|           |                         |                                                         |                | Timer (Off/On)                  |  |     |     | All |
|           |                         |                                                         |                | Off Time ( xx:xx:xx)            |  |     |     | All |
|           |                         |                                                         |                | Off                             |  |     |     | All |
|           |                         | Sleep Timer                                             | 10 Min         |                                 |  |     | All |     |
|           |                         |                                                         | 20 Min         |                                 |  |     | All |     |
|           |                         |                                                         | 30 Min         |                                 |  |     | All |     |
|           |                         |                                                         | 40 Min         |                                 |  |     | All |     |
|           |                         |                                                         | 50 Min         |                                 |  |     | All |     |
|           |                         |                                                         | 60 Min         |                                 |  |     | All |     |
|           |                         |                                                         | 90 Min         |                                 |  |     | All |     |
|           |                         |                                                         | 120 Min        |                                 |  |     | All |     |
|           |                         | SCART(have sub page)<br>(Only availabe in SCART source) | SCART1         | Auto                            |  |     |     | All |
|           |                         |                                                         |                | Mixed                           |  |     |     | All |
|           | RGB                     |                                                         |                |                                 |  |     | All |     |
|           | Composite               |                                                         |                |                                 |  |     | All |     |
|           | S-Video                 |                                                         |                |                                 |  |     | All |     |
|           | SCART2(If have I/O)     |                                                         | Auto           |                                 |  |     | All |     |
|           |                         |                                                         | Composite      |                                 |  |     | All |     |
|           |                         |                                                         | S-Video        |                                 |  |     | All |     |
|           | Input label             |                                                         |                |                                 |  |     |     |     |
|           | Subtitle(have sub page) | Analog Subtitle                                         | On             |                                 |  |     | All |     |
|           |                         |                                                         | On during mute |                                 |  |     | All |     |
|           |                         |                                                         | Off            |                                 |  |     | All |     |
|           |                         | 1st Subtitle(28)                                        | English        |                                 |  |     | All |     |
|           |                         |                                                         | Finnish        |                                 |  |     | All |     |
|           |                         |                                                         | French         |                                 |  |     | All |     |
|           |                         |                                                         | Gaelic         |                                 |  |     | All |     |
|           |                         |                                                         | Galician       |                                 |  |     | All |     |
|           |                         |                                                         | German         |                                 |  |     | All |     |
|           |                         |                                                         | Greek          |                                 |  |     | All |     |
|           |                         |                                                         | Hungarian      |                                 |  |     | All |     |
|           |                         |                                                         | Italian        |                                 |  |     | All |     |
|           |                         |                                                         | Norwegian      |                                 |  |     | All |     |
|           |                         |                                                         | Polish         |                                 |  |     | All |     |
|           |                         |                                                         | Portuguese     |                                 |  |     | All |     |
|           |                         |                                                         | Romanian       |                                 |  |     | All |     |
|           |                         |                                                         | Russian        |                                 |  |     | All |     |
| Serbian   |                         |                                                         |                |                                 |  | All |     |     |
| Slovak    |                         |                                                         |                |                                 |  | All |     |     |
| Slovenian |                         |                                                         |                |                                 |  | All |     |     |
| Spanish   |                         |                                                         |                |                                 |  | All |     |     |
| Swedish   |                         |                                                         |                |                                 |  | All |     |     |
| Turkish   |                         |                                                         |                |                                 |  | All |     |     |
| Welsh     |                         |                                                         |                |                                 |  | All |     |     |
| Off       |                         |                                                         |                |                                 |  | All |     |     |
| Basque    |                         |                                                         |                |                                 |  | All |     |     |
| Bulgarian |                         |                                                         |                |                                 |  | All |     |     |
| Catalan   |                         |                                                         |                |                                 |  | All |     |     |

|  |                                  |                        |                  |  |  |  |     |
|--|----------------------------------|------------------------|------------------|--|--|--|-----|
|  |                                  |                        | Croatian         |  |  |  | All |
|  |                                  |                        | Czech            |  |  |  | All |
|  |                                  |                        | Danish           |  |  |  | All |
|  |                                  |                        | Dutch            |  |  |  | All |
|  |                                  | 2nd Subtitle(28)       | English          |  |  |  | All |
|  |                                  |                        | Finnish          |  |  |  | All |
|  |                                  |                        | French           |  |  |  | All |
|  |                                  |                        | Gaelic           |  |  |  | All |
|  |                                  |                        | Galician         |  |  |  | All |
|  |                                  |                        | German           |  |  |  | All |
|  |                                  |                        | Greek            |  |  |  | All |
|  |                                  |                        | Hungarian        |  |  |  | All |
|  |                                  |                        | Italian          |  |  |  | All |
|  |                                  |                        | Norwegian        |  |  |  | All |
|  |                                  |                        | Polish           |  |  |  | All |
|  |                                  |                        | Portuguese       |  |  |  | All |
|  |                                  |                        | Romanian         |  |  |  | All |
|  |                                  |                        | Russian          |  |  |  | All |
|  |                                  |                        | Serbian          |  |  |  | All |
|  |                                  |                        | Slovak           |  |  |  | All |
|  |                                  |                        | Slovenian        |  |  |  | All |
|  |                                  |                        | Spanish          |  |  |  | All |
|  |                                  |                        | Swedish          |  |  |  | All |
|  |                                  |                        | Turkish          |  |  |  | All |
|  |                                  |                        | Welsh            |  |  |  | All |
|  |                                  |                        | Off              |  |  |  | All |
|  |                                  |                        | Basque           |  |  |  | All |
|  |                                  |                        | Bulgarian        |  |  |  | All |
|  |                                  |                        | Catalan          |  |  |  | All |
|  |                                  |                        | Croatian         |  |  |  | All |
|  |                                  |                        | Czech            |  |  |  | All |
|  |                                  |                        | Danish           |  |  |  | All |
|  |                                  |                        | Dutch            |  |  |  | All |
|  |                                  | Subtitle Type          | Normal           |  |  |  | All |
|  |                                  |                        | Hearing Impaired |  |  |  | All |
|  | Teletext Language(have sub page) | Digital Teletext Lang. | English          |  |  |  | All |
|  |                                  |                        | Finnish          |  |  |  | All |
|  |                                  |                        | French           |  |  |  | All |
|  |                                  |                        | Gaelic           |  |  |  | All |
|  |                                  |                        | Galician         |  |  |  | All |
|  |                                  |                        | German           |  |  |  | All |
|  |                                  |                        | Greek            |  |  |  | All |
|  |                                  |                        | Hungarian        |  |  |  | All |
|  |                                  |                        | Italian          |  |  |  | All |
|  |                                  |                        | Norwegian        |  |  |  | All |
|  |                                  |                        | Polish           |  |  |  | All |
|  |                                  |                        | Portuguese       |  |  |  | All |
|  |                                  |                        | Romanian         |  |  |  | All |
|  |                                  |                        | Russian          |  |  |  | All |
|  |                                  |                        | Serbian          |  |  |  | All |
|  |                                  |                        | Slovak           |  |  |  | All |
|  |                                  |                        | Slovenian        |  |  |  | All |
|  |                                  |                        | Spanish          |  |  |  | All |
|  |                                  |                        | Swedish          |  |  |  | All |
|  |                                  |                        | Turkish          |  |  |  | All |
|  |                                  |                        | Welsh            |  |  |  | All |

|  |                                                      |                                                      |                                             |  |  |  |                             |
|--|------------------------------------------------------|------------------------------------------------------|---------------------------------------------|--|--|--|-----------------------------|
|  |                                                      |                                                      | Basque                                      |  |  |  | All                         |
|  |                                                      |                                                      | Bulgarian                                   |  |  |  | All                         |
|  |                                                      |                                                      | Catalan                                     |  |  |  | All                         |
|  |                                                      |                                                      | Croatian                                    |  |  |  | All                         |
|  |                                                      |                                                      | Czech                                       |  |  |  | All                         |
|  |                                                      |                                                      | Danish                                      |  |  |  | All                         |
|  |                                                      |                                                      | Dutch                                       |  |  |  | All                         |
|  |                                                      | Decode Page Lang.                                    | WEST EUR                                    |  |  |  | All                         |
|  |                                                      |                                                      | EAST EUR                                    |  |  |  | All                         |
|  |                                                      |                                                      | Russia                                      |  |  |  | All                         |
|  |                                                      |                                                      | Russia-2                                    |  |  |  | All                         |
|  |                                                      |                                                      | Greek                                       |  |  |  | All                         |
|  |                                                      |                                                      | Turkey                                      |  |  |  | All                         |
|  |                                                      |                                                      | Arab/Hbrw                                   |  |  |  | All                         |
|  |                                                      |                                                      | Farsian                                     |  |  |  | All                         |
|  |                                                      |                                                      | Arab                                        |  |  |  | All                         |
|  |                                                      |                                                      | BYELORUSSI<br>AN                            |  |  |  | All                         |
|  | CEC Setup                                            | Enable CEC                                           | On                                          |  |  |  | All                         |
|  |                                                      |                                                      | Off                                         |  |  |  | All                         |
|  |                                                      | Auto Power On                                        | On                                          |  |  |  | All                         |
|  |                                                      |                                                      | Off                                         |  |  |  | All                         |
|  |                                                      | Auto Standby                                         | On                                          |  |  |  | All                         |
|  |                                                      |                                                      | Off                                         |  |  |  | All                         |
|  |                                                      | Amplifier Control                                    | On                                          |  |  |  | All                         |
|  |                                                      |                                                      | Off                                         |  |  |  | All                         |
|  |                                                      | Speaker Preference                                   | TV speaker                                  |  |  |  | All                         |
|  |                                                      |                                                      | Amplifier                                   |  |  |  | All                         |
|  | Common<br>Interface(have sub<br>page)                | (display some info &<br>status..)                    |                                             |  |  |  | All                         |
|  | HDMI Scan Info<br>(Only available in<br>HDMI source) | Automatic                                            |                                             |  |  |  | All                         |
|  |                                                      | Underscan                                            |                                             |  |  |  | All                         |
|  |                                                      | Overscan                                             |                                             |  |  |  | All                         |
|  | OAD                                                  | Manual OAD<br>Download                               | Scanning... (if<br>has oad<br>information.) |  |  |  | All                         |
|  |                                                      | Auto Download (only<br>country setting is<br>Norway) | Yes                                         |  |  |  | All                         |
|  |                                                      |                                                      | No                                          |  |  |  | All                         |
|  |                                                      | Auto Install (only<br>country setting is<br>Norway)  | Yes                                         |  |  |  | All                         |
|  |                                                      |                                                      | No                                          |  |  |  | All                         |
|  | No Signal Off                                        | On                                                   |                                             |  |  |  |                             |
|  |                                                      | Off                                                  |                                             |  |  |  |                             |
|  | No Operation Off                                     | On                                                   |                                             |  |  |  |                             |
|  |                                                      | Off                                                  |                                             |  |  |  |                             |
|  | Reset Default                                        |                                                      |                                             |  |  |  | All                         |
|  | Demo                                                 | Top                                                  |                                             |  |  |  | All                         |
|  |                                                      | Bottom                                               |                                             |  |  |  |                             |
|  |                                                      | Off                                                  |                                             |  |  |  |                             |
|  | DivX(R)<br>Registration                              |                                                      |                                             |  |  |  | All                         |
|  | DivX(R)<br>Deactivation                              |                                                      |                                             |  |  |  | All(HT<br>3.0 or<br>HD 1.1) |



|          |                               |                                                                         |                                                |             |  |  |     |
|----------|-------------------------------|-------------------------------------------------------------------------|------------------------------------------------|-------------|--|--|-----|
|          | SW Ver.                       |                                                                         |                                                |             |  |  | All |
| Parental | Password(have sub page)       | Channel Block(have sub page)                                            | (Channel munber...)                            |             |  |  | All |
|          |                               | Time Interval Lock<br>(Only available for country is selected "Norway") | Lock Type                                      | None        |  |  | All |
|          |                               |                                                                         |                                                | Everyday    |  |  | All |
|          |                               |                                                                         |                                                | Sunday      |  |  | All |
|          |                               |                                                                         |                                                | Monday      |  |  | All |
|          |                               |                                                                         |                                                | Tuesday     |  |  | All |
|          |                               |                                                                         |                                                | Wednesday   |  |  | All |
|          |                               |                                                                         |                                                | Thursday    |  |  | All |
|          |                               |                                                                         |                                                | Friday      |  |  | All |
|          |                               |                                                                         |                                                | Saturday    |  |  | All |
|          |                               |                                                                         | Start Time                                     | ( xx:xx:xx) |  |  | All |
|          |                               |                                                                         | End Time                                       | ( xx:xx:xx) |  |  | All |
|          |                               | Parental Guidance(have sub page)                                        | Age Rating                                     | 18          |  |  | All |
|          |                               |                                                                         |                                                | None        |  |  | All |
|          |                               |                                                                         |                                                | 4           |  |  | All |
|          |                               |                                                                         |                                                | 5           |  |  | All |
|          |                               |                                                                         |                                                | 6           |  |  | All |
|          |                               |                                                                         |                                                | 7           |  |  | All |
|          |                               |                                                                         |                                                | 8           |  |  | All |
|          |                               |                                                                         |                                                | 9           |  |  | All |
|          |                               |                                                                         |                                                | 10          |  |  | All |
|          |                               |                                                                         |                                                | 11          |  |  | All |
|          |                               |                                                                         |                                                | 12          |  |  | All |
|          |                               |                                                                         |                                                | 13          |  |  | All |
|          |                               |                                                                         |                                                | 14          |  |  | All |
|          |                               |                                                                         |                                                | 15          |  |  | All |
|          |                               |                                                                         |                                                | 16          |  |  | All |
|          |                               |                                                                         |                                                | 17          |  |  | All |
|          |                               | Input Block(have sub page)                                              | (Source list..)<br>(TV,YPbPr,AV,SCART,PC,HDMI) |             |  |  | All |
|          |                               | Set password (have sub page)                                            | New Password (xxxx)                            |             |  |  | All |
|          |                               |                                                                         | Confirm Password (xxxx)                        |             |  |  | All |
|          |                               | Clear All                                                               |                                                |             |  |  | All |
| Eco      | On / Off (← toggle selection) |                                                                         |                                                |             |  |  | All |

| Sharp DVB OSD tree--PC |                               |                                  |             |   |   |      |              |
|------------------------|-------------------------------|----------------------------------|-------------|---|---|------|--------------|
| OSD Layer 1            | 2                             | 3                                | 4           | 5 | 6 | Note | Model Number |
| Picture                | Brightness                    | slider                           |             |   |   |      | All          |
|                        | Contrast                      | slider                           |             |   |   |      | All          |
|                        | Color Temperature             | Normal                           | (default)   |   |   |      | All          |
|                        |                               | Cool                             |             |   |   |      | All          |
|                        |                               | Warm                             |             |   |   |      | All          |
|                        | Advanced Video(have sub page) | Auto Config                      | Auto Config |   |   |      | All          |
|                        |                               | Horizontal                       | slider      |   |   |      | All          |
|                        |                               | Vertical                         | slider      |   |   |      | All          |
|                        |                               | Phase                            | slider      |   |   |      | All          |
|                        |                               | Clock                            | slider      |   |   |      | All          |
|                        |                               | Resolution(if ambiguous timings) | 1360*768    |   |   |      | All          |
|                        |                               |                                  | 1024*768    |   |   |      | All          |
| 1280*768               |                               |                                  |             |   |   | All  |              |
| Sound                  | Sound Mode                    | Personal                         |             |   |   |      | All          |
|                        |                               | Music                            |             |   |   |      | All          |
|                        |                               | Speech                           |             |   |   |      | All          |
|                        | Equalizer 120Hz               | slider                           |             |   |   |      | All          |
|                        | Equalizer 500Hz               | slider                           |             |   |   |      | All          |
|                        | Equalizer 1.5KHz              | slider                           |             |   |   |      | All          |
|                        | Equalizer 5KHz                | slider                           |             |   |   |      | All          |
|                        | Equalizer 10KHz               | slider                           |             |   |   |      | All          |
|                        | Balance                       | slider                           |             |   |   |      | All          |
|                        | Virtual Surround              | On                               |             |   |   |      | All          |
|                        |                               | Off                              |             |   |   |      | All          |
|                        | Digital Audio Out             | PCM                              |             |   |   |      | All          |
|                        |                               | Off                              |             |   |   |      | All          |
|                        |                               | Dolby Digital                    |             |   |   |      | All          |
|                        | Features                      | Menu Language(29)                | English     |   |   |      |              |
| Deutsch                |                               |                                  |             |   |   |      | All          |
| Français               |                               |                                  |             |   |   |      | All          |
| Italiano               |                               |                                  |             |   |   |      | All          |
| Español                |                               |                                  |             |   |   |      | All          |
| Português              |                               |                                  |             |   |   |      | All          |
| Nederlands             |                               |                                  |             |   |   |      | All          |
| Български              |                               |                                  |             |   |   |      | All          |
| Dansk                  |                               |                                  |             |   |   |      | All          |
| Suomi                  |                               |                                  |             |   |   |      | All          |
| Svenska                |                               |                                  |             |   |   |      | All          |
| Norsk                  |                               |                                  |             |   |   |      | All          |
| Polski                 |                               |                                  |             |   |   |      | All          |
| Русский                |                               |                                  |             |   |   |      | All          |
| Česky                  |                               |                                  |             |   |   |      | All          |
| Hrvatski               |                               |                                  |             |   |   |      | All          |
| Magyar                 |                               |                                  |             |   |   |      | All          |
| Română                 |                               |                                  |             |   |   |      | All          |
| Slovenský              |                               |                                  |             |   |   |      | All          |
| Slovenščina            |                               |                                  |             |   |   |      | All          |
| Srpski                 |                               |                                  |             |   |   |      | All          |
| Türkçe                 |                               |                                  |             |   |   |      | All          |
| Ελληνικά               |                               |                                  |             |   |   |      | All          |
| Gaeilge                |                               |                                  |             |   |   |      | All          |
| Latviski               |                               |                                  |             |   |   |      | All          |
| Eesti                  |                               |                                  |             |   |   |      | All          |
| Lietuviskai            |                               |                                  |             |   |   |      | All          |
| українська             |                               |                                  |             |   |   |      | All          |
| Byelorussian           |                               |                                  |             |   |   | All  |              |
| Picture Format         |                               | Full screen                      |             |   |   |      | All          |
|                        |                               | Native ( if is native timing)    |             |   |   |      | All          |
|                        |                               | 4:3                              |             |   |   |      | All          |
| Input label            |                               |                                  |             |   |   |      |              |
| No Signal Off          |                               | On                               |             |   |   |      |              |
|                        |                               | Off                              |             |   |   |      |              |

|          |                               |                                                                         |                                               |             |  |  |                       |
|----------|-------------------------------|-------------------------------------------------------------------------|-----------------------------------------------|-------------|--|--|-----------------------|
|          | No Operation Off              | On                                                                      |                                               |             |  |  |                       |
|          |                               | Off                                                                     |                                               |             |  |  |                       |
|          | Reset Default                 |                                                                         |                                               |             |  |  | All                   |
|          | Demo                          | Top                                                                     |                                               |             |  |  | All                   |
|          |                               | Bottom                                                                  |                                               |             |  |  |                       |
|          |                               | Off                                                                     |                                               |             |  |  |                       |
|          | DivX(R) Registration          |                                                                         |                                               |             |  |  | All                   |
|          | DivX(R) Deactivation          |                                                                         |                                               |             |  |  | All(HT 3.0 or HD 1.1) |
|          | SW Ver.                       |                                                                         |                                               |             |  |  | All                   |
| Parental | Password(have sub page)       | Time Interval Lock<br>(Only available for country is selected "Norway") | Lock Type                                     | None        |  |  | All                   |
|          |                               |                                                                         |                                               | Everyday    |  |  | All                   |
|          |                               |                                                                         |                                               | Sunday      |  |  | All                   |
|          |                               |                                                                         |                                               | Monday      |  |  | All                   |
|          |                               |                                                                         |                                               | Tuesday     |  |  | All                   |
|          |                               |                                                                         |                                               | Wednesday   |  |  | All                   |
|          |                               |                                                                         |                                               | Thursday    |  |  | All                   |
|          |                               |                                                                         |                                               | Friday      |  |  | All                   |
|          |                               |                                                                         |                                               | Saturday    |  |  | All                   |
|          |                               |                                                                         | Start Time                                    | ( xx:xx:xx) |  |  | All                   |
|          |                               |                                                                         | End Time                                      | ( xx:xx:xx) |  |  | All                   |
|          |                               | Parental Guidance(have sub page)                                        | Age Rating                                    | 18          |  |  | All                   |
|          |                               |                                                                         |                                               | None        |  |  | All                   |
|          |                               |                                                                         |                                               | 4           |  |  | All                   |
|          |                               |                                                                         |                                               | 5           |  |  | All                   |
|          |                               |                                                                         |                                               | 6           |  |  | All                   |
|          |                               |                                                                         |                                               | 7           |  |  | All                   |
|          |                               |                                                                         |                                               | 8           |  |  | All                   |
|          |                               |                                                                         |                                               | 9           |  |  | All                   |
|          |                               |                                                                         |                                               | 10          |  |  | All                   |
|          |                               |                                                                         |                                               | 11          |  |  | All                   |
|          |                               |                                                                         |                                               | 12          |  |  | All                   |
|          |                               |                                                                         |                                               | 13          |  |  | All                   |
|          |                               |                                                                         |                                               | 14          |  |  | All                   |
|          |                               |                                                                         |                                               | 15          |  |  | All                   |
|          |                               |                                                                         |                                               | 16          |  |  | All                   |
|          |                               |                                                                         |                                               | 17          |  |  | All                   |
|          |                               | Input Block(have sub page)                                              | (Source list.)<br>(TV,YPbPr,AV,SCART,PC,HDMI) |             |  |  | All                   |
|          |                               | Set password (have sub page)                                            | New Password (xxxx)                           |             |  |  | All                   |
|          |                               |                                                                         | Confirm Password (xxxx)                       |             |  |  | All                   |
|          |                               | Clear All                                                               |                                               |             |  |  | All                   |
| Eco      | On / Off (← toggle selection) |                                                                         |                                               |             |  |  | All                   |

## 2. ADC Adjustment and White Balance Adjustment

This sop only meet below TV mode.

|       |            |
|-------|------------|
| Sharp | LC-32LE40E |
| Sharp | LC-42LE40E |

Introduction of adjust item:

It only need adjust WB( Ypbpr/VGA's Normal/Warm/Cool ).

Content of WB Adjustment

1. Enter into the factory mode:(same as the above-mentioned).

2.Take an example of adjust Ypbpr\_Normal:

a.Select item "Source": Ypbpr and item "Color Temp": Normal.

b.Adjust gain of RGB to meet spec in the below setting of tim\pat.

(COMPONENT mode: TIM = 314; PAT = 141(80IRE))

3. Take an example of adjust VGA\_Normal:

a.Select item "Source": VGA and item "Color Temp": Normal.

b.Adjust gain of RGB to meet spec in the below setting of tim\pat.

(VGA mode: TIM = 137; PAT = 141(80IRE))

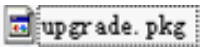
|            | Normal/ (7500°K)  | Warm/ (6500°K)    | Cool / (9300°K)   |
|------------|-------------------|-------------------|-------------------|
| x (center) | $0.289 \pm 0.015$ | $0.314 \pm 0.015$ | $0.272 \pm 0.015$ |
| y (center) | $0.291 \pm 0.015$ | $0.319 \pm 0.015$ | $0.277 \pm 0.015$ |
| Lv(center) | >300cd            | >300cd            | >300cd            |

## [2] SOFTWARE UPGRADE PROCEDURE

### FW Upgrade

#### Step 1: Ready for F/W Upgrade (Only for client user)

- 1.1 Change the software file name to "upgrade.pkg", eg:

After change: 

- 1.2 Prepare a USB disk (The file system of USB disk must be FAT16 or FAT 32).  
 1.3 Copy the file (upgrade.pkg) from your computer to the USB disk root directory, and remove it from computer's USB port!

Note:

- 1). Note the version of this F/W before you change the software file name.
- 2). The software file name must be changed, or TV can't detect the F/W.

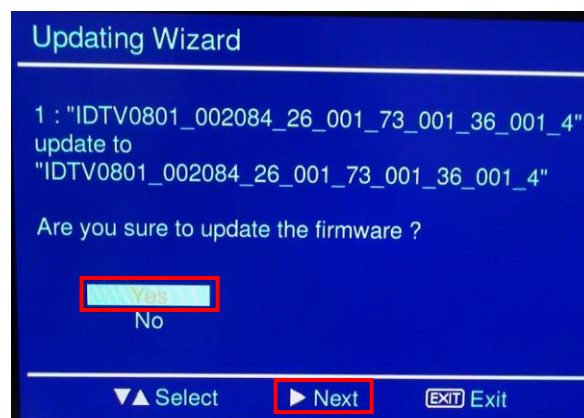
#### Step 2: F/W Upgrade

- 2.1 AC on (Power plug)  
 2.2 Plug the USB disk on the USB port on the side I/O port of TV.



- 2.3 TV AC power off -> AC power on

2.4 TV will upgrade after detect the USB disk condition and the content of the pkg file, press **Yes** to upgrade. then select **Next** to start upgrade the firmware.



## Updating Wizard

The firmware is successfully updated to version .  
Please restart the TV set to activate the new firmware.

 Power

2.5 Remove USB disk from TV.

2.6 Check if the software version is correct.

Press "MENU+1999+PRE PR", enter factory mode.

| FACTORY           |              |
|-------------------|--------------|
| 1. Brand          | Sharp 2k1... |
| 2. Ver            | V2.01        |
| 3. Loader Ver     | V0.001A      |
| 4. Date           | Jan 10 2012  |
| 5. Model name     | SHARP_2...   |
| 6. Scaler         | MT5366CA...  |
| 7. Tuner type     | Pan-ENV5...  |
| 8. Panel type     | PANEL_A...   |
| 9. Current source | TV           |
| 10. Auto color    | No           |
| Exit              |              |

2.7 Please do factory reset, select **reset** then press 

| FACTORY                |         |
|------------------------|---------|
| 29. Language           | English |
| 30. Reset              | Reset   |
| 31. OAD Enable         | Yes     |
| 32. VGA Switch         | EDID    |
| 33. BAUD RATE          | 9600    |
| 34. VGA UART           | DISABLE |
| 35. EFUSE              | DISABLE |
| 36. Rotate Screen      | DISABLE |
| 37. E-Sticker Settings | Off     |
| 38. E-Sticker 0        | 0       |
| Exit                   |         |

2.8 Reset finish, AC OFF.



## The Writing EDID

Take LC-32LE40E for example

### 1. Materials list



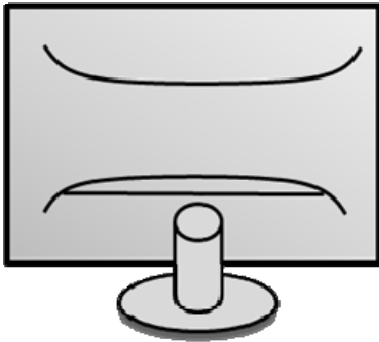
ISP JIG: 715GT080- A



VGA cable



PC



Monitor



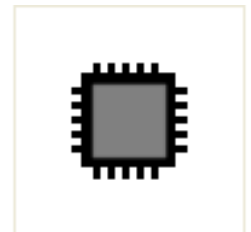
USB cable

TPV P/N: 089G1758 X



RW\_EEPROM\_by\_Fact...

Tool



MP\_SHARP\_32LE140E..  
T320XVNO1\_VO. 4\_20..

New F/W

### 2. Connection



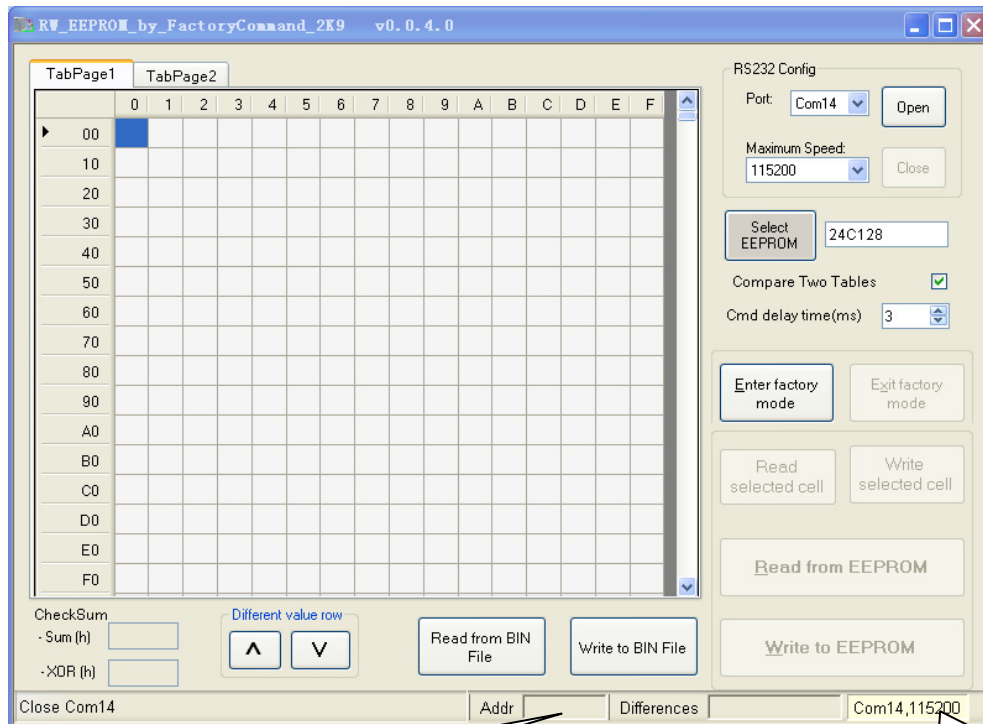
### 3. FW upgrade

1. It needs following file to run **RW\_EEPROM\_by\_FactoryCommand** program:

1. RW\_EEPROM\_by\_FactoryCommand.exe Program
2. RW\_EEPROM\_by\_FactoryCommand.ini Config saved file



2. After run the program, **RW\_EEPROM\_by\_FactoryCommand**, it will show below:

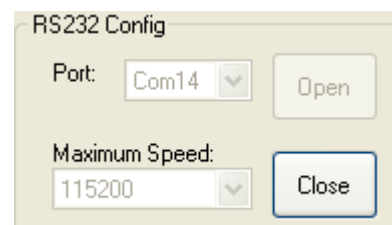
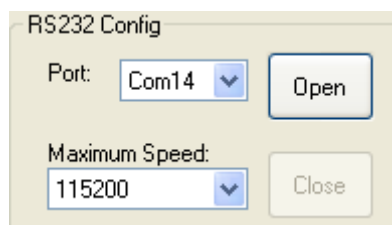


When read or write data , it's current processing address

Com port and baud rate  
Yellow color means port is close  
Green color means port open

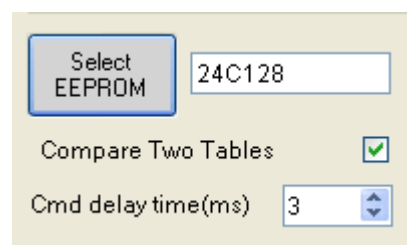
3. Select COM port:

Select COM port number in combobox, you can press "Port" button to test whether Com port is available or not. Then press **open**.



4. Select EEPROM.

Select **24C128**.



Enter factory mode

5. Enter factory mode:

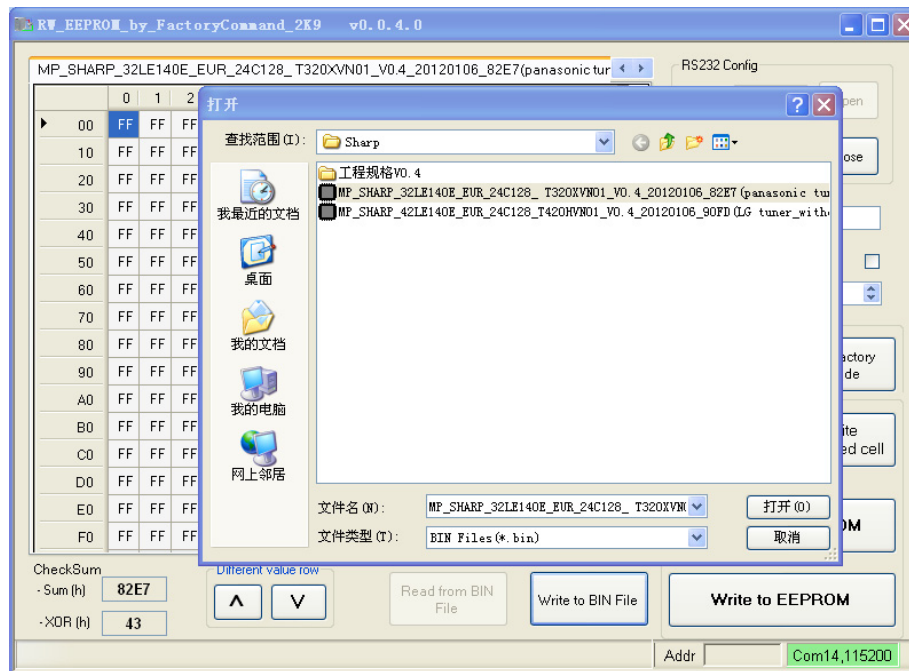
Press this button to enter factory mode and enable following 5 buttons:



Read from BIN file

6. Read from BIN file:

It will show a file browser dialog to select BIN file



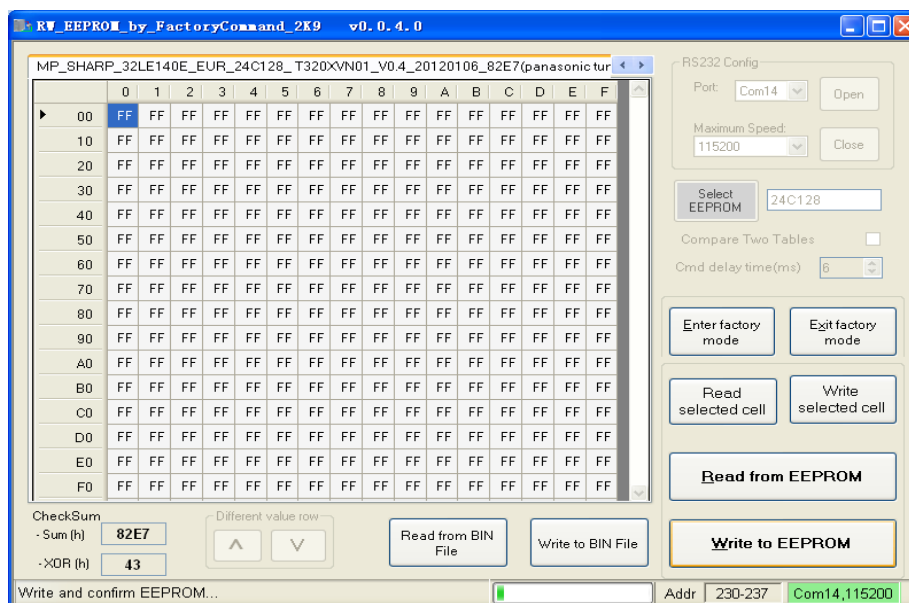
After reading all data, it will calculate CheckSum on left-bottom corner.

Write to EEPROM

7. Write to EEPROM:

Write all data to EEPROM, if all data are ready (no empty cells).

Program will write 8 bytes, and then read 8 bytes back for confirmation until finishes working..



RV\_EEPROM\_by\_FactoryCommand\_2K9

v0.0.4.0

MP\_SHARP\_32LE140E\_EUR\_24C128\_T320XVN01\_V0.4\_20120106\_82E7(panasonic tur

|    | 0  | 1  | 2  | 3  | 4  | 5  | 6  | 7  | 8  | 9  | A  | B  | C  | D  | E  | F  |
|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|
| 00 | FF | FF | FF | FF | FF | FF | FF | FF | FF | FF | FF | FF | FF | FF | FF | FF |
| 10 | FF | FF | FF | FF | FF | FF | FF | FF | FF | FF | FF | FF | FF | FF | FF | FF |
| 20 | FF | FF | FF | FF | FF | FF | FF | FF | FF | FF | FF | FF | FF | FF | FF | FF |
| 30 | FF | FF | FF | FF | FF | FF | FF | FF | FF | FF | FF | FF | FF | FF | FF | FF |
| 40 | FF | FF | FF | FF | FF | FF | FF | FF | FF | FF | FF | FF | FF | FF | FF | FF |
| 50 | FF | FF | FF | FF | FF | FF | FF | FF | FF | FF | FF | FF | FF | FF | FF | FF |
| 60 | FF | FF | FF | FF | FF | FF | FF | FF | FF | FF | FF | FF | FF | FF | FF | FF |
| 70 | FF | FF | FF | FF | FF | FF | FF | FF | FF | FF | FF | FF | FF | FF | FF | FF |
| 80 | FF | FF | FF | FF | FF | FF | FF | FF | FF | FF | FF | FF | FF | FF | FF | FF |
| 90 | FF | FF | FF | FF | FF | FF | FF | FF | FF | FF | FF | FF | FF | FF | FF | FF |
| A0 | FF | FF | FF | FF | FF | FF | FF | FF | FF | FF | FF | FF | FF | FF | FF | FF |
| B0 | FF | FF | FF | FF | FF | FF | FF | FF | FF | FF | FF | FF | FF | FF | FF | FF |
| C0 | FF | FF | FF | FF | FF | FF | FF | FF | FF | FF | FF | FF | FF | FF | FF | FF |
| D0 | FF | FF | FF | FF | FF | FF | FF | FF | FF | FF | FF | FF | FF | FF | FF | FF |
| E0 | FF | FF | FF | FF | FF | FF | FF | FF | FF | FF | FF | FF | FF | FF | FF | FF |
| F0 | FF | FF | FF | FF | FF | FF | FF | FF | FF | FF | FF | FF | FF | FF | FF | FF |

RS232 Config

Port: Com14

Open

Maximum Speed: 115200

Close

Select EEPROM 24C128

Compare Two Tables

Cmd delay time(ms) 6

Enter factory mode

Exit factory mode

Read selected cell

Write selected cell

Read from EEPROM

Write to EEPROM

Checksum

- Sum (h) 82E7

- XOR (h) 43

Different value row

Read from BIN File

Write to BIN File

Write and confirm OK

Addr Com14,115200

# CHAPTER 4. TROUBLESHOOTING TABLE

## [1] TROUBLESHOOTING TABLE

| Power unit operation check.                                                                                           |      |                                                                                                                                                                                                                                                                                |
|-----------------------------------------------------------------------------------------------------------------------|------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| ↓                                                                                                                     |      |                                                                                                                                                                                                                                                                                |
| Are the power cord and harness in the unit properly connected?                                                        | NO → | Connect the power cord and harness properly, and turn on the power.                                                                                                                                                                                                            |
| LINE_FILTER_UNIT: ↓ YES                                                                                               |      |                                                                                                                                                                                                                                                                                |
| Is F9901/F9902 normal?                                                                                                | NO → | LINE_FILTER_UNIT:<br>Isn't NR9901, NR9902, IC9901, L9901, L9902(32'')/L9903(42''), etc. out of order? Moreover, whether the short-circuit with the circumference circuit is checked.                                                                                           |
|                                                                                                                       |      | POWER_UNIT:<br>BD9901, FB9901, (FB9902, FB9906, D9101)(32'')/(FB902, FB9801, D9801)(42'') etc. out of order? Moreover, whether the short-circuit with the circumference circuit is checked.                                                                                    |
| POWER_UNIT ↓ YES                                                                                                      |      |                                                                                                                                                                                                                                                                                |
| Is B+_main(32'')/B1+(42'') output? (Set the main power SW to ON.)                                                     | NO → | Does the PFC circuit operate normally?<br>The circuit around the protection circuit etc. is checked.                                                                                                                                                                           |
| ↓ YES                                                                                                                 |      |                                                                                                                                                                                                                                                                                |
| Is a voltage of +5.2V applied to pin (2,3) of connector (CN9304(32'')/CN907(42''))?<br>(Set the main power SW to ON.) | NO → | Does the switching circuit operate normally?<br>Check circuit around the primary side (IC9301, T9301, D9303(32'')/D9307(42''), etc.), the secondary side ((D9302, L9301, ZD9316)(32'')/(D9308, L9304, ZD9103(42''), etc.), and the protection circuit.                         |
| ↓ YES                                                                                                                 |      |                                                                                                                                                                                                                                                                                |
| Are 12 and 24V output as for the power on/off switch when it is on?                                                   | NO → | Does the inverter circuit operate normally?<br>Check circuit around the primary side (IC9103, T9101, Q9101, etc.)(32'')/(IC9101, T9101, Q9101, Q9102)(42''), the secondary side ((IC9101, D9102, D9103)(32'')/(IC9302, D9115, D9116)(42''), etc.), and the protection circuit. |

| The sound is not emitted from the speaker though the picture has come out.                      |      |                                                             |
|-------------------------------------------------------------------------------------------------|------|-------------------------------------------------------------|
| ↓                                                                                               |      |                                                             |
| No sound output in all modes?                                                                   |      |                                                             |
| TERMINAL UNIT: ↓                                                                                |      |                                                             |
| Is the audio signal output of IC U401 normal?                                                   | NO → | Check IC U401 and its peripheral circuits.                  |
| ↓ YES                                                                                           |      |                                                             |
| Is audio signal input to pin (15/20/21/22) of IC U602 (AMP)?                                    | NO → | Check the line between IC U401 and IC U602.                 |
| ↓ YES                                                                                           |      |                                                             |
| Is MUTE circuit [AMP_MUTE_LINE, POWERUP_LINE] normal?                                           | NO → | Check the AMP_MUTE_LINE and POWERUP_LINE. (Q652, Q653 etc.) |
| ↓ YES                                                                                           |      |                                                             |
| Is the audio signal output of pin (1,2) (R) and pin (3,4) (L) of CN601(AUDIO-CONNECTOR) normal? | NO → | Check IC U602 and its peripheral circuits.                  |
| ↓ YES                                                                                           |      |                                                             |
| Check Speaker (right and left) and wire harness.                                                |      |                                                             |

**No sound (during the reception of TV broadcasting)**



Does not the sound go out though the picture has come out when TV is received?

MAIN UNIT:



Is the DIF signal output from pin (13/14) of Tuner (TU101)?

NO →

Check the tuner and its peripheral circuits. Replace as required.

↓ YES

Is the DIF signal sent to pin (184/185) of IC U401?

NO →

Check IC U401 its peripheral circuits.

↓ YES

Refer to “No sound output in all modes”.

**No sound from external input devices (1)**



Does not the sound of the audio signal input to SCART go out?

TEREMINAL UNIT:



Is the audio signal properly sent to pin 6 (SCT1\_AUL\_IN) and pin2 (SCT1\_AUR\_IN) of SCART (CN151)?

NO →

Check the setting of an external input device that connects of CN151.

↓ YES

Is the audio signal properly sent to pin (2&15) of IC U605?

NO →

Check the line between CN151 and IC U605.

↓ YES

Is the audio signal properly sent to pin IC U401?

NO →

Check the line between U605 and IC U401.

↓ YES

Refer to “No sound output in all modes”.

**No sound from external input devices (2)**



Does not the sound of the audio signal input to Component go out?

MAIN UNIT:



Is the audio signal properly sent to pin (2)(YPbPr\_L\_In) and pin (4)(YPbPr\_R\_In) of CN116?

NO →

Check the connection to CN116 and the external input device.

↓ YES

Is the audio signal properly sent to pin5 (YPbPr\_LIn) and pin14 (YPbPr\_RIn) of IC U605?

NO →

Check the line between CN116 and IC U605.

↓ YES

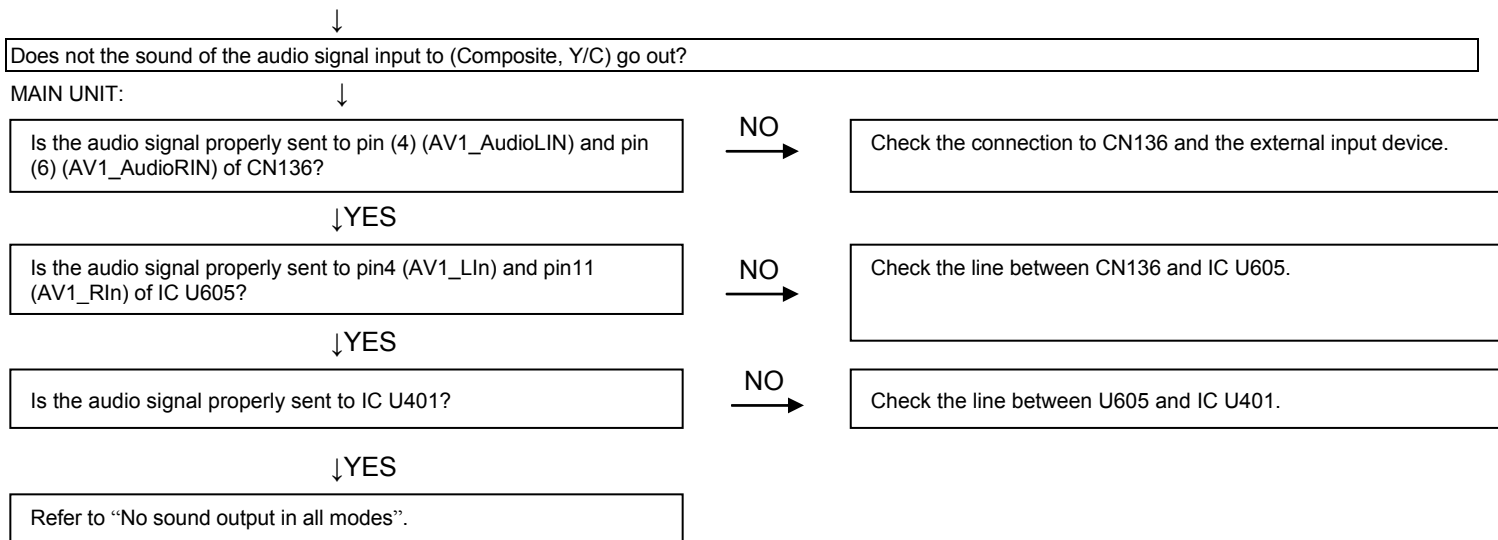
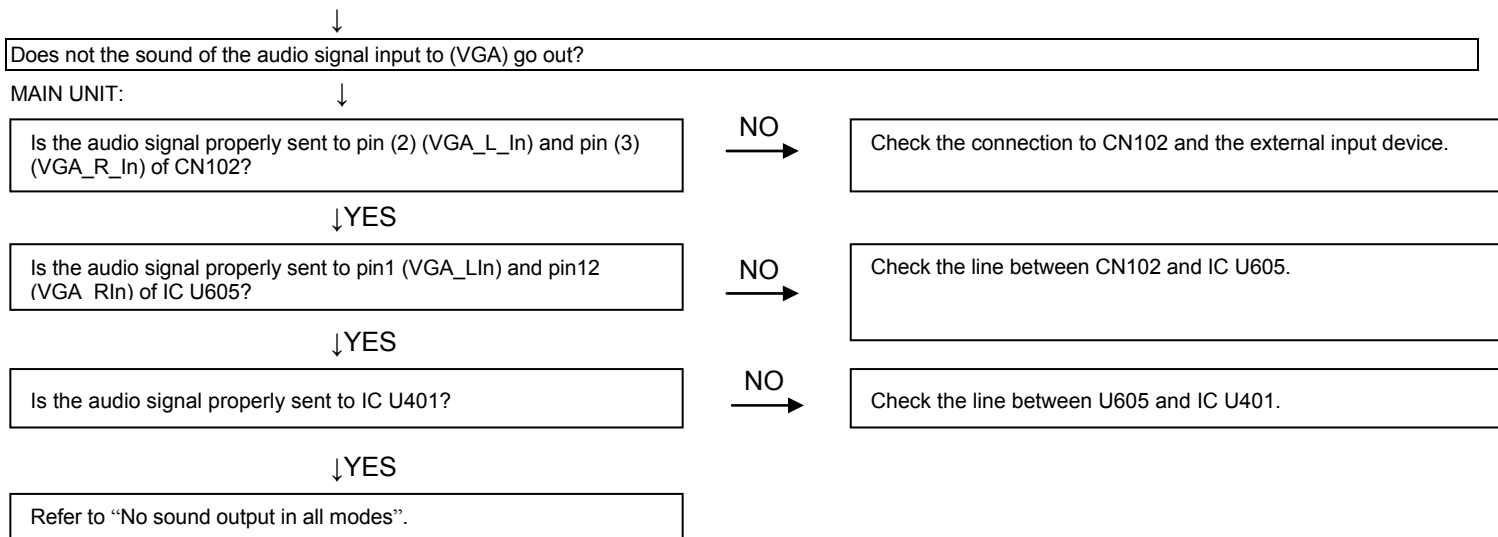
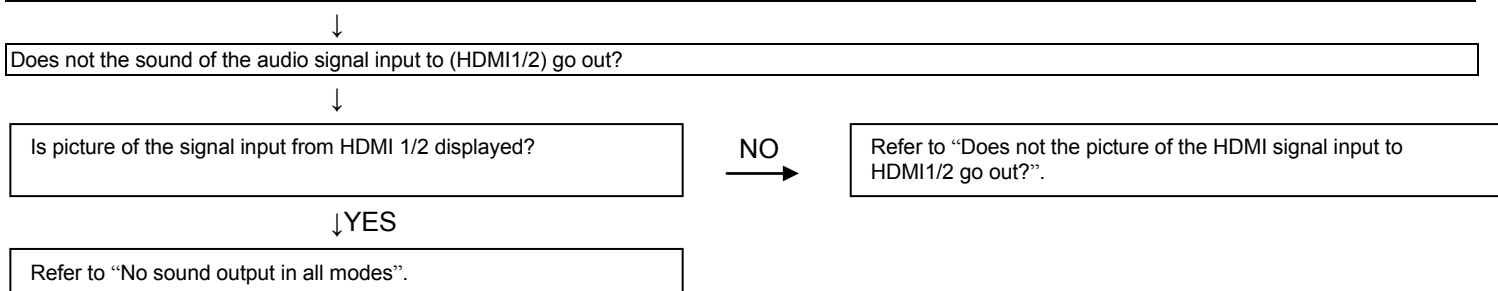
Is the audio signal properly sent to IC U401?

NO →

Check the line between U605 and IC U401.

↓ YES

Refer to “No sound output in all modes”.

**No sound from external input devices (3)****No sound from external input devices (4)****No sound from external input devices (5)**



**The audio signal is not output (1)**

The audio signal of UHF/VHF is not output from SCART.

TEREMINAL UNIT:



Is audio signal output from IC U603 sent to pin (3) (SCT1\_AUL\_OUT) and pin(1)(SCT1\_AUR\_OUT) of SCART(CN151)?

YES  
→

Check the connection to SCART1 and external devices.

↓NO

Is audio signal output from IC U401 is sent to pin (2) (1IN-) and pin (6) (2IN-) of IC U603?

YES  
→

Check the line between IC U401 and IC U603.

↓NO

Check IC U401 and its peripheral circuits.

**The audio signal is not output (2)**

The audio signal of UHF/VHF is not output from audio line output terminal.

TEREMINAL UNIT:



Is audio signal output from IC U601 sent to pin (4)(SCT2\_AUL\_OUT) and pin(6)(SCT2\_AUR\_OUT) of SCART2(CN152)?

YES  
→

Check the connection to AV output and external devices.

↓NO

Is audio signal output from IC U401 is sent to IC U601?

YES  
→

Check the line between IC U401 and IC U601.

↓NO

Check IC U401 and its peripheral circuits.

**The audio signal is not output (3)**

No audio signal output from SPDIF\_OUTPUT terminal.

TEREMINAL UNIT:



Is ASPDIF audio signal output from pin (206) of IC U401 to pin (2) of connector CN117?

YES  
→

Check the connection to SPDIF\_OUT and external devices.

↓NO

Check IC U401 and its peripheral circuits.

**The audio signal is not output (4)**

No sound from HEADPHONE\_OUTPUT terminal.

TEREMINAL UNIT:



Is the HP\_DET# signal input into pin (253) of IC U401 from pin (6) of a headphone terminal (CN602)?

NO  
→

Check the connection to CN602 and external headphone is plug in well.

↓YES

Is the audio signal output from IC U602 to pin (2) (HPOUTL) and pin (3) (HPOUTR) of headphone terminal CN602?

NO  
→

Check the line between IC U602 and CN602.

↓YES

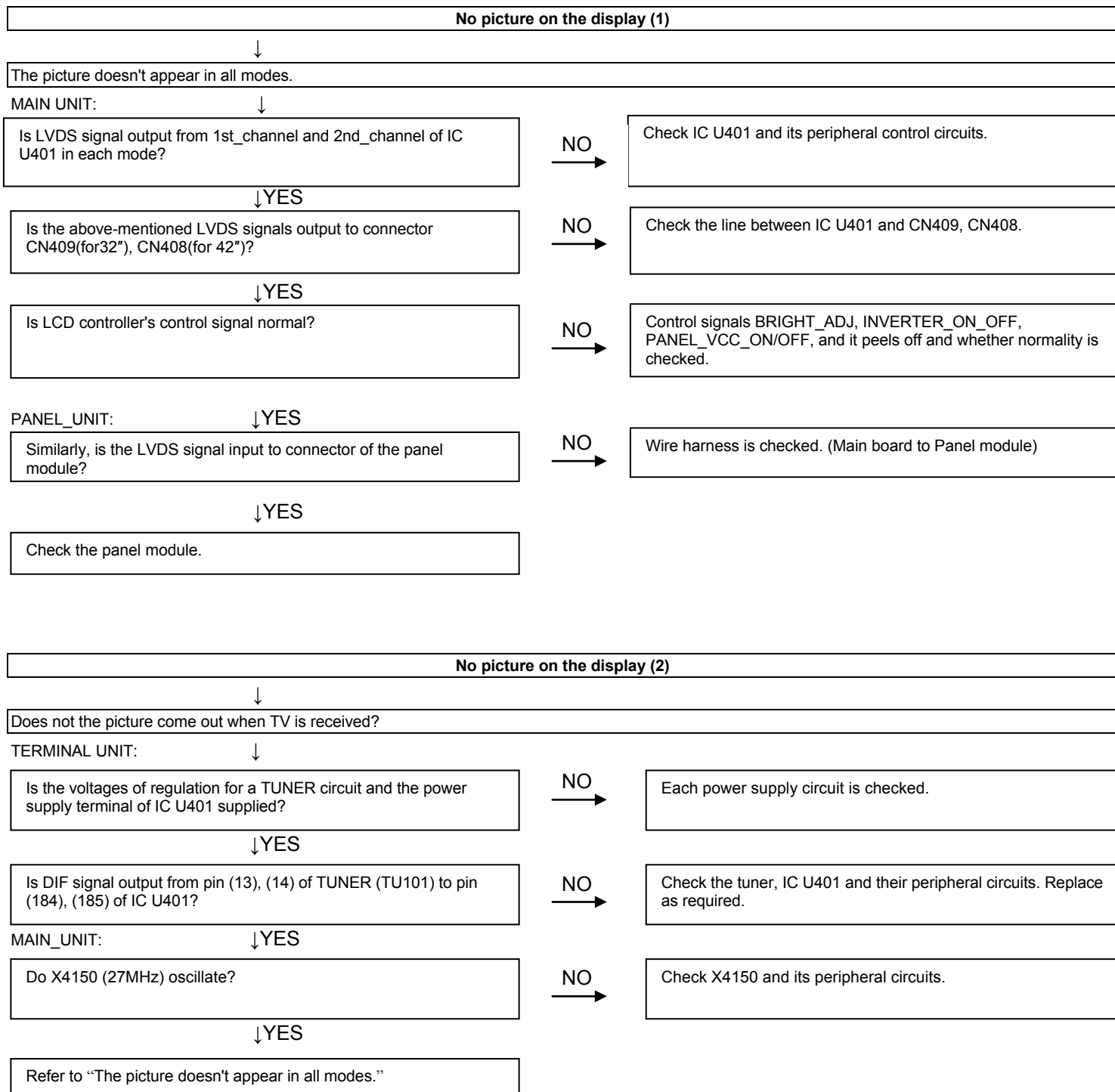
Is the audio signal output from IC U401 pin (201) and pin (203) sent to pin (1)(HPL IN) and pin(4)(HPR IN) of IC U602?

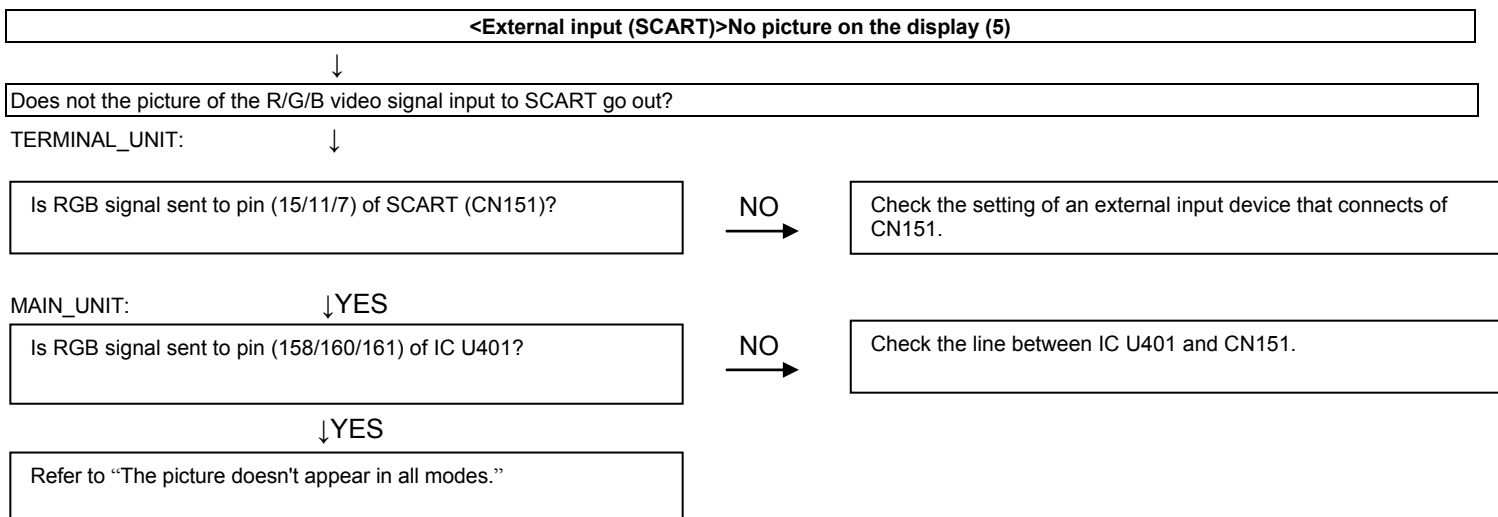
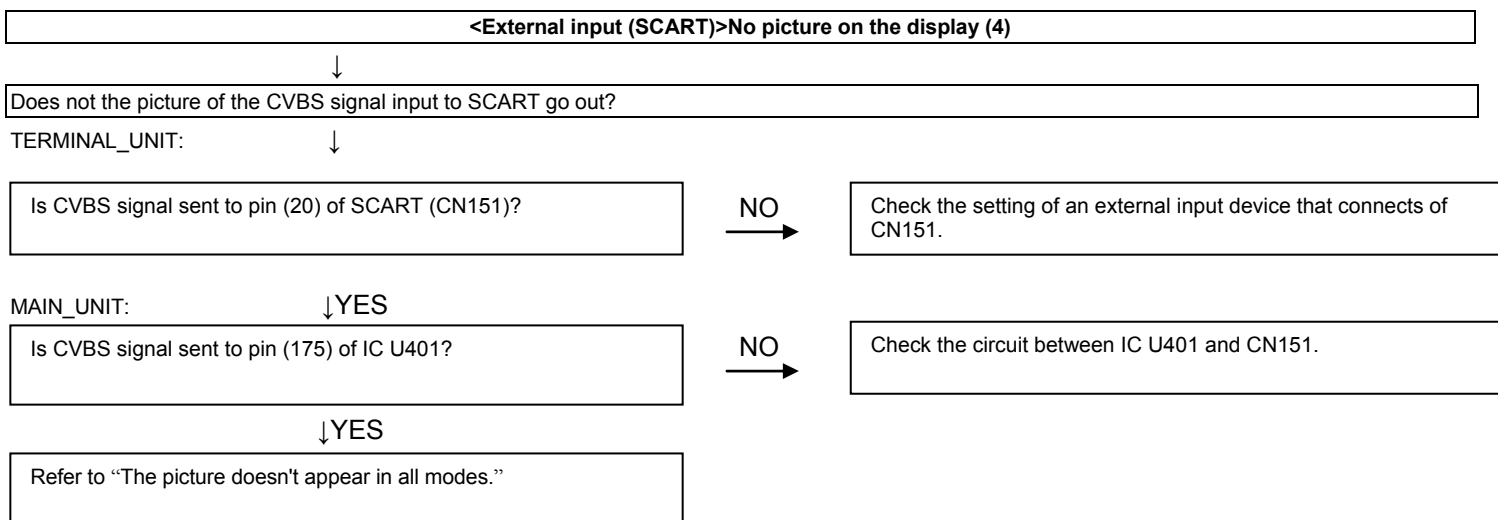
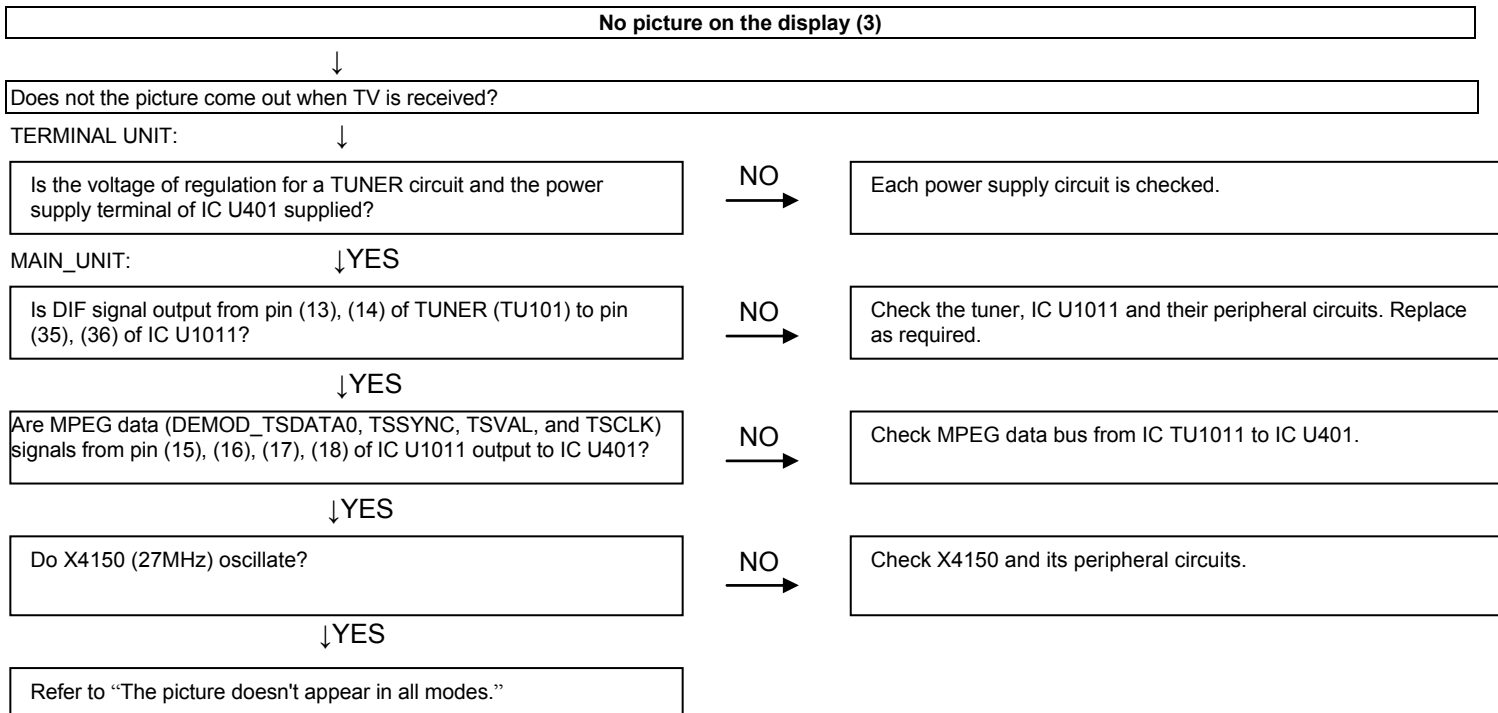
NO  
→

Check the line between IC U401 and IC U602.

↓YES

Check IC U401 and its peripheral circuits.





## &lt;External input (Component)&gt;No picture on the display (6)

Does not the picture of the component video signal input to Component go out?

TERMINAL\_UNIT:

Is Component Y/Pb/Pr signal sent to pin (2)/Y, (4)/Pb, (6)/Pr of AV1(CN111) ?

NO

Check the setting of an external input device that connects of CN111.

MAIN\_UNIT:

↓YES

Is Component Y/Pb/Pr signal sent to pin (163/165/166) of IC U401?

NO

Check the line between IC U401 and CN111

↓YES

Refer to "The picture doesn't appear in all modes."

## &lt;External input AV (Composite)&gt;No picture on the display (7)

Does not the picture of the composite video signal input to AV(Composite) go out?

TERMINAL UNIT:

Is CVBS signal sent to pin (2) of AV (CN136) ?

NO

Check the setting of an external input device that connects of CN136.

MAIN\_UNIT:

↓YES

Is CVBS signal sent to pin (181) of IC U401?

NO

Check the line between IC U401 and CN136.

↓YES

Refer to "The picture doesn't appear in all modes."

## &lt;External input HDMI1 &gt;No picture on the display (8)

Does not the picture of the HDMI signal input to HDMI1 go out?

MINI AV\_UNIT:

Is the HOT\_PLUG detection function of pin (19) of a HDMI terminal (CN502) normal?

NO

Check the line between pin (50) of IC U501 and CN502.

↓NO

Check the connection and setup with the external HDMI devices.

↓YES

Are EDID data pin (6) (SCL) of IC U503 (EEPROM), pin (5) (SDA) accessed, and is it read from pin (15), pin (16) of a HDMI terminal (CN502)?

NO

Is access possible in the re-writing or exchange of EDID data of IC U503?

↓YES

Is TMDS signal input into pin(63, 62)/RX2-2±,(60, 59)/RX2-1±, (57, 56)/RX2-0±, (54, 53)/RX2-C± of IC U501?

NO

Check the line between IC U501 and CN502.

↓YES

Is TMDS signal output from pin(17, 18)/ 2±,(20, 21)/ 1±, (23, 24)/ 0±, (26, 27)/\_C± of IC U501?

NO

Check IC U501 and peripheral circuits.

↓YES

Refer to "The picture doesn't appear in all modes."

**<External input HDMI2>No picture on the display (9)**

Does not the picture of the HDMI signal input to HDMI2 go out?

MINI AV\_UNIT:

Is the HOT\_PLUG detection function of pin (19) of a HDMI terminal (CN506) normal?

NO →

Check the line between pin (35) of IC U501 and CN506.

↓ NO

Check the connection and setup with the external HDMI devices.

Are EDID data pin (6)(SCL) of IC U504 (EEPROM), pin (5)(SDA) accessed, and is it read from pin (15), pin (16) of a HDMI terminal(CN506)?

NO →

Is access possible in the re-writing or exchange of EDID data of IC U504?

↓ YES

Is TMDS signal input into pin(48, 47)/RX3-2±,(45, 44)/RX3-1±, (42, 41)/RX3-0±, (39, 38)/RX3-C± of IC U501?

NO →

Check the line between IC U501 and CN506.

↓ YES

Is TMDS signal output from pin(17, 18)/ 2±,(20, 21)/ 1±, (23, 24)/ 0±, (26, 27)/\_C± of IC U501?

NO →

Check IC U501 and peripheral circuits.

↓ YES

Refer to “The picture doesn't appear in all modes.”

**<External input VGA>No picture on the display (10)**

Does not the picture of the PC IN(ANALOG) video signal input to VGA (15pin-D-SUB terminal) go out?

TERMINAL\_UNIT:

Is R/G/B/H/V signal sent to pin (1)/R, (2)/G, (3)/B, (13)/H, (14)/V of VGA (CN101)?

NO →

Check the setting of an external input device that connects of CN101.

MAIN\_UNIT:

↓ YES

Is R/G/B/H/V signal sent to pin (156)/R, (154)/G, (152)/B, (151)/H, (150)/V of IC U401?

NO →

Check the line between IC U401 and CN101.

↓ YES

Refer to “The picture doesn't appear in all modes.”

## &lt; During external connection &gt; No picture on the TV (1)



No picture appears on SCART - connected monitor during the tuner (U/V) reception.



## Checklist:

- 1) Is the Signal Type (item) in MENU-Option-Input Select equal to Signal Type of an external device? ...Set it to "CVBS", "Y/C", "RGB", "AUTO".
- 2) Is ANT-CABLE disconnected or connected improperly? ...Connect it correctly as per the operation manual.
- 3) The picture is sent to the monitor in a CVBS signal if the source during display is ATV/DTV, CVBS or Y/C of SCART, AV.  
When sent by component, etc., that signal is not sent to the monitor.
- 4) When the monitor picture is not sent and is not displayed on the monitor, refer to "No picture" for each terminal.
- 5) The video output from SCART is not the monitor output (output of the picture now watching).  
The picture of the last selected TV channel is always sent to SCART. (Specification)

TERMINAL\_UNIT:



Is CVBS signal output into pin (19) of CN151 (SCART)?

NO →

Check the setting of an external input device that connects of CN151.

↓ YES

Is U401 pin (170) CVBS signal output into pin (19) of CN151 (SCART)?

NO →

Check the line between CN151 and U401.

↓ YES

Refer to "The picture doesn't appear in all modes."

## &lt; During external connection &gt; No picture on the TV (2)



AVOUT:

No picture from SCART appears on AV OUT connected.



## Checklist:

- 1) Is the Signal Type (item) in MENU-Option-Input Select equal to Signal Type of an external device? .
- 2) The picture is sent to the monitor in a CVBS signal if the source during display is TV, CVBS or Y/C of SCART, AV.  
When sent by component, etc., that signal is not sent to the monitor.
- 3) When the monitor picture is not sent and is not displayed on the monitor, refer to "No picture" for each terminal.
- 4) The video output from SCART1 is not the monitor output (output of the picture now watching).  
The picture of the last selected TV channel is always sent to SCART. (Specification)

TERMINAL\_UNIT:



Is CVBS signal output into pin (19) of CN152 (AV OUT)?

NO →

Check the setting of an external input device that connects of CN152.

↓ YES

Is CVBS signal output from pin (170) of IC U401 into pin (2) of CN152 (AV OUT)?

NO →

Check the line between CN152 and U401.

↓ YES

Refer to "The picture doesn't appear in all modes."

## CHAPTER 5. MAJOR IC INFORMATIONS

### [1] MAJOR IC INFORMATION

#### 2.1 U401(MT5366CAOU/B)

##### General Description

The MediaTek MT5365/66 family is a backend decoder and a TV controller and offers high integration for advanced applications. It combines a transport de-multiplexer, a high definition video decoder, an AC3 audio decoder, a dual-link LVDS/mini-LVDS transmitter, and an NTSC/PAL/SECAM TV decoder with a 3D comb filter (NTSC/PAL). The MT5365/66 enables consumer electronics manufactures to build high quality, low cost and feature-rich DTV.

World-Leading Audio/Video Technology: The MT5365/66 supports Full-HD MPEG1/2/4/DiviX/VC1/RM/H.264/AVS video decoder standards, and JPEG.

The MT5365/66 also supports MediaTek MDDiTM de-interlace solution can reach very smooth picture quality for motions. A 3D comb filter added to the TV decoder recovers great details for still pictures. The special color processing technology provides natural, deep colors and true studio quality video.

Also, the MT5365/66 family has built-in high resolution and high-quality audio codec. Rich Features for High Value Products: The MT5365/66 family enables true singlechip experience. It integrates high-quality HDMI1.3 (partial HDMI1.4), high speed VGA ADC, dual-channel LVDS, USB2.0 receiver, Ethernet, TCON and panel overdrive.

##### Key Features

1. Worldwide multi-standard analog TV demodulator
2. A transport demultiplexer
3. A multi-standard video decoder
4. An AC3/MPEG2 audio decoder
5. HDMI1.3 receiver (cover HDMI1.4 partial Spec)

| HDMI 1.4 Spec. | Ethernet Channel | 3D over HDMI | 4Kx2K | Audio Return Channel | Additional Color Space |
|----------------|------------------|--------------|-------|----------------------|------------------------|
|                | Optional         | Yes          | No    | Yes                  | Yes                    |

6. Audio codec
7. TCON
8. Ethernet
9. Panel overdrive control
10. Local dimming

##### General Features

###### Host CPU

- ☐ ARM1176JZS-756MHz
- ☐ 16K I-Cache and 16K D-Cache
- ☐ 14K Boot ROM
- ☐ JTAG ICE interface
- ☐ Watch Dog timers

###### Transport Demultiplexer

- ☐ New generation 2 demux design
- ☐ Supports one serial transport stream input
- ☐ Supports ATSC, DVB-T, DVB-C transport stream input
- ☐ Support DES / 3-DES / DVB / AES / Multi-2 de-scramblers
- ☐ Up to 8 even/odd keys for descrambling
- ☐ Supports 32 PID filters and 32 section filters
- ☐ Supports 32 PID filters for recording
- ☐ Supports hardware CRC-32 check
- ☐ Supports PCR recovery function
- ☐ Supports a micro-processor for stream process and video start code detection



**MPEG2 Decoder**

- ☐ MPEG MP@ML, MP@HL
- ☐ Supports de-blocking filter

**MPEG1 Decoder****MPEG4 Decoder**

- ☐ ASP@L5

**H.264 (MPEG4.10) HD Decoder (AVC)**

- ☐ MP@L4.0, HP@L4.0, constrained BP@L3 video standard

**VC-1 (SMPTE421M)**

- ☐ MP@HL, AP@L3(Partial Support, support up to 1920x1080)
- ☐ WMV9 decoder MP@HL

**DivX (XviD) Decoder**

- ☐ DIVX3 / DIVX4 / DIVX5 / DIVX6 / DIVX HD

**AVS Decoder**

- ☐ Jizhun profile @Level 6.0.1

**RMVB Decoder**

- ☐ RealVideo8/9/10

**Soreson H.263**

- ☐ Still Image decoding
- ☐ JPEG (base-line or progressive)
- ☐ De-mosquito engine
- ☐ 2D/3D for all AV inputs

**2D Graphics**

- ☐ Supports multiple color modes
- ☐ Point, horizontal/vertical line primitive drawings
- ☐ Rectangle fill and gradient fill functions
- ☐ Bitblt with transparent options
- ☐ Alpha blending and optional pre-multiplied alpha composition Bitblt
- ☐ Stretch Bitblt
- ☐ YCbCr to RGB color space conversion
- ☐ Support index to direct mode bitblt

**Image Resizer**

- ☐ Supports 16bpp/32bpp direct color format.
- ☐ Supports 420/422 video format.
- ☐ Supports 420/422/444 JPEG format.
- ☐ Arbitrary ratio vertical/horizontal scaling of video, from 1/128X to 128X
- ☐ Simple DMA.

**OSD Plane**

- ☐ Three linking list OSDs with multiple color mode and two of them has up-scaler

**Video Plane**

- ☒ Supports video freeze and over scan.
- ☒ Flesh tone management
- ☒ Gamma correction
- ☒ Color Transient Improvement (CTI)
- ☒ 2D Peaking
- ☒ Saturation/hue adjustment
- ☒ Brightness and contrast adjustment
- ☒ Black and White level extender
- ☒ Adaptive Luma management
- ☒ Automatic detect video, film and mixed-mode source
- ☒ 3:2/2:2 pull down source detection

## LC-32LE40E-LC-42LE40E

☑ Supports FHD motion-adaptive de-interlace in 32bit dram interface

☑ Supports excellent low angle image processing

☑ Brilliant boundary shaping for moving object

☑ Advanced non-linear panorama scaling.

☑ Programmable zoom viewer

☑ Progressive scan output

☑ Supports alpha blending for OSD on video plane.

☑ Dithering processing for flat panel display

☑ Frame rate conversion.

☑ Supports FHD panel and VGA dot-to-dot

☑ Supports PIP/POP, (dual de-interlace, one HD and one SD)

### OD

☑ Support 60Hz Full-HD and WXGA panel over drive.

### TCON

☑ Flexible timing control with programmable timing

i. Horizontal timing control

ii. Vertical timing control

iii. Multi-line timing control

iv. Multi-frame timing control

☑ Support gate power modulation timing

☑ Support 1/2/4/8 frame inversion, 1-line inversion, 2-line inversion, and could up to 255-line dot inversion

### Local Dimming

☑ Block division: up to 800 total blocks, up to 100 horizontal blocks

☐ Support 50K ~ 50M SPI clock rate

### LVDS

☐ Support 6/8/10/12-bit one-link, or 6/8/10-bit dual-link LVDS transmitter,

☐ Built-in spread spectrum for EMI performance

☐ Programmable panel timing output

### Mini-LVDS

☐ Single port 6/8-bit 6 pairs mini-LVDS output for WXGA 60Hz panel

☐ Single port 6/8-bit 3 pairs mini-LVDS output for WXGA 60Hz panel

☐ Dual port 6/8-bit 3 pairs mini-LVDS output for WXGA 60Hz panel

☐ Single port 8bit 6 pairs mini-LVDS output for FHD 60Hz panel

☐ Dual port 8 bit 6 pair mini-LVDS output for FHD 60Hz panel

☐ Dual port 8bit 3 pairs mini-LVDS output for FHD 60Hz panel

### CVBS In

☐ On-chip 54 MHz 10-bit video ADC

☐ Supports PAL (B,G,D,H,M,N,I,Nc), NTSC, NTSC-4.43, SECAM

☐ NTSC/PAL supports 3D/2D comb filter

☐ Built-in motion-adaptive 3D Noise Reduction

☐ VBI data slicer for CC/TT decoding

☐ Supports 2 S-Video.

☐ MT5366 support 3-channel CVBS. MT5365 support 2-channel CVBS.

☐ Supports SCART connector

### VGA In

☐ Supports VGA input up to UXGA 162 MHz

☐ Supports full VESA standards

### Component Video In

☐ Supports two component video inputs

☐ Supports 480i / 480p / 576i / 576p / 720p / 1080i / 1080p

**Audio ADC**

- ❑ MT5366 support 7-pair L/R input, MT5365 support 1-pair L/R input

**Audio digital input**

- ❑ MT5366 support 5 bit (10 channel) I2S audio input (muxed with GPIO), MT5365 support 2 bit (4 channel) I2S audio input (muxed with GPIO).

**HDMI Receiver**

- ☞ One channel HDMI1.4

v. Maximum data rate can be up to 3.3 GHz

vi. Support 3D video format

vii. Audio Return channel

- ☞ EIA/CEA-861B

- ☞ CEC

**Video bypass**

- ☞ TV bypass

- ☞ CVBS Monitor (any AV input)

**TV audio demodulator**

- ☞ Supports BTSC / EIA-J / A2 / NICAM / PAL FM / SECAM world-wide formats

- ☞ Standard automatic detection

- ☞ Stereo demodulation, SAP demodulation

- ☞ Mode selection (Main/SAP/Stereo)

**Audio DAC**

- ☞ MT5366 support 4-pair audio DACs, MT5365 support 2-pair audio DACs

**DRAM Controller**

- ☞ 16/32-bit DDR2/DDR3 interface, (MT5365 only support 16-bit DRAM)

- ☞ MT5365 Support DDR2 1026 MHz, DDR3 1188MHz. MT5366 Support DDR2 1026MHz, DDR3 1242MHz.

- ☞ Supports 512Mb or 1 Gb DDR2 DRAM device and 1Gb or 2Gb DDR3 device. MT5365 has 16-bit data bus offers up to 256MB space (one x16 DRAM device), and MT5366 has 32-bit data bus offers up to 512MB space (two x16 DRAM device).

- ☞ Supports DDR2-800/DDR2-1066/DDR3-1333/DDR3-1600 device

**Audio DSP**

- ☞ Supports Dolby Digital AC-3 decoding (ATSC)

- ☞ MPEG-1 layer I/II decoding

- ☞ Support WMA / HE-AAC

- ☞ Dolby Prologic II

- ☞ Audio output: 5.1ch + 2ch (down mix) + 2ch(bypass)

- ❑ Pink noise and white noise generator

- ❑ Equalizer

- ❑ Bass management

- ❑ 3D surround processing with virtual surround

- ❑ Audio and video lip synchronization

- ❑ Supports bass/treble

- ❑ Automatic volume control

- ❑ MT5366 supports 5-bit (10-channel) main audio I2S output interface, MT5365 support 2-bit (4-channel) main audio I2S output interface: each of these channels is up to 24-bit resolution.

**S/PDIF interface**

- ❑ Support SPDIF in bypass

- ❑ One SPDIF out

**Analog TV IF Demodulator**

- ❑ Supports world-wide analog TV standard

- ❑ Accept Low IF frequency

- ❑ Full digital AGC control and carrier recovery

- ❑ Embedded SAW filter and IF Amplifier. Cost effective TV front-end structure and no more costs on

## LC-32LE40E-LC-42LE40E

viii. External analog SAW filters (Video/Audio)

ix. External analog IF demodulator

x. Extra peripheral circuit on CVBS signal data path

xi. External SAW filter and IF VGA on tuner

### Peripherals

□ MT5366 support three built-in UARTs with Tx and Rx FIFO, MT5365 support two UART (one is muxed with GPIO).

□ MT5366 support MII/RMII interface (built-in Ethernet MAC), MT5365 support RMII only.

□ Seven basic serial interfaces; one is for the tuner, one is the master for general purpose, and one is the slave for VGA DDC, the other four extra slave serial interfaces used for HDMI EDID data (three are muxed with GPIO).

□ MT5366 support three PWMs, MT5365 support two PWMs (one is muxed with GPIO).

□ IR receiver

□ Real-time clock and watchdog controller

□ Built-in 2-link USB2.0/1.1, USB port0 supports external hub,

□ Built-in uP for standby mode

□ Support SDIO interface pin muxed with smart card

□ Supports two serial flash or one serial and one NAND flash

□ MT5366 supports six-input low-speed ADC, MT5365 support five-input low-speed ADC.

□ Supports boundary scan (JTAG)

### IC Outline

□ The MT5366 is 21x21mm PBGA Package, MT5365 is 256-pin LQFP package with EPAD

□ 3.3V/1.12V/1.2V and 1.8V for DDR2 or 1.5V for DDR3

## 2.2 U701/U702(TPS54319RTER)

### General Description

The TPS54319 device is a full featured 6 V, 3 A, synchronous step down current mode converter with two integrated MOSFETs.

The TPS54319 enables small designs by integrating the MOSFETs, implementing current mode control to reduce external component count, reducing inductor size by enabling up to 2 MHz switching frequency, and minimizing the IC footprint with a small 3mm x 3mm thermally enhanced QFN package.

The TPS54319 provides accurate regulation for a variety of loads with an accurate  $\pm 3.0\%$  Voltage Reference (VREF) over temperature.

Efficiency is maximized through the integrated 45m $\Omega$  MOSFETs and 360mA typical supply current. Using the enable pin, shutdown supply current is reduced to 2  $\mu$ A by entering a shutdown mode.

Under voltage lockout is internally set at 2.6 V, but can be increased by programming the threshold with a resistor network on the enable pin. The output voltage startup ramp is controlled by the slow start pin. An open drain power good signal indicates the output is within 93% to 107% of its nominal voltage.

Frequency fold back and thermal shutdown protects the device during an over-current condition.

The TPS54319 is supported in the SwitcherPro™ Software Tool at [www.ti.com/switcherpro](http://www.ti.com/switcherpro).

For more SWIFT™ documentation, see the TI website at [www.ti.com/swift](http://www.ti.com/swift).

### Features

- Two 45-m $\Omega$  (typical) MOSFETs for High Efficiency at 3-A Loads
- 300kHz to 2MHz Switching Frequency
- 0.8 V  $\pm$  3.0% Voltage Reference Over Temperature (0°C to 85°C)
- Synchronizes to External Clock
- Adjustable Slow Start/Sequencing
- UV and OV Power Good Output
- -40°C to 150°C Operating Junction Temperature Range
- Thermally Enhanced 3mm  $\times$  3mm 16-pin QFN

### Applications

- Low-Voltage, High-Density Power Systems
- Point-of-Load Regulation for Consumer Applications such as Set Top Boxes, LCD Displays, CPE Equipment.

## 2.3 U1011(MT5135AE/A)

### General Description

MT5135AE is an integrated channel demodulator for European TV solutions. It provides high performance DVB-T and DVB-C demodulation function with low overall costs. The integrated SAW filter technology eliminates the need for on-board SAW filters and VGAs, resulting in a lower BOM cost and a more compact PCB design. The integrated CI+ controller and interface also reduce the complexity of TS routing.

The integrated DVB-T and DVB-C demodulators fully comply with the related ETSI and ITU standards. They meet performance requirements of NorDig Unified, C-Book, and D-Book. A high-performance analog front-end, consisting of a PGA and a 10-bit ADC preceding the digital data path, can accept the IF or low-IF signal inputs directly from RF can tuners or silicon tuners. The digital data path realizes a set of refined algorithms to achieve quality demodulation under varying channel conditions and impairments. An on-chip micro-processor controls the robust acquisition flow for both DVB-T and DVB-C demodulators, and thus enables MT5135AE to successfully lock on the desired TV channel with a high carrier frequency offset (CFO) or timing frequency offset (TFO). In addition, proprietary mechanisms are incorporated to speed up the channel scan. They include the automatic mode detection for DVB-T, and the automatic symbol rate and modulation type detection for DVB-C.

With MT5135AE, the cost and system complexity of a TV can be significantly reduced. Taking advantage of the integrated SAW filter technology, the SAW filter together with the accompanying VGA, conventionally found on board or inside a NIM, can be spared. This solution calls for a simple RF tuner directly feeding the IF inputs of MT5135AE, leaving a lean PCB design with a smaller component count and a lower BOM cost as well. Furthermore, MT5135AE provides an integrated CI+ controller with the complete complementing interfaces among the CAM, the main decoder chip, and an additional demodulator chip. When not in use, these interfaces can be set to hi-impedance mode to support multiple demodulators or multiple CAMs operation. With the highly flexible CI+ controller and interfaces, MT5135AE effectively addresses the TS routing complexity for the application scenarios such as simultaneous PVR recording and playback, or time-shift playback. The need for on-board TS multiplexers is eliminated and the PCB layout can be kept as compact as possible.

### Features

- ☐ Integrated DVB-T and DVB-C demodulators
- ☐ Integrated CI/CI+ controller and interface
- ☐ On-chip integrated SAW filter function for lower BOM cost
- ☐ On-chip high-performance PGA and 10-bit ADC accepting IF or low-IF inputs
- ☐ RSSI measurement
- ☐ Independent RF and IF AGC controls
- ☐ On-chip micro-processor for acquisition control
- ☐ Good CAM compatibility
- ☐ One parallel or serial TS interface accepting outputs from other demodulator chips
- ☐ TS interfaces supporting instant playback and PVR recording and playback
- ☐ SPI for host communication
- ☐ On-chip SIF master for tuner control
- ☐ Low power consumption: less than 200 mW
- ☐ LQFP-128 14 x 14 mm<sup>2</sup> package

### DVB-T Demodulator Features

- ☐ ETSI 300 744 & NorDig Unified compliant
- ☐ Excellent performance for SFN & Indoor reception
- ☐ Supporting 2k and 8k modes
- ☐ Supporting QPSK, 16-, and 64-QAM constellations
- ☐ Supporting 1/4, 1/8, 1/16, and 1/32 guard Intervals
- ☐ Supporting hierarchical & non-hierarchical modes
- ☐ Accepting 6,7,8 MHz channel bandwidth
- ☐ Automatic mode detection
- ☐ Full-digital timing/frequency with wide acquisition range
- ☐ Support triple offset
- ☐ Excellent adjacent channel interference (ACI) rejection capability
- ☐ Excellent co-channel interference (CCI) rejection capability
- ☐ Fast channel lock time

## LC-32LE40E-LC-42LE40E

### DVB-C Demodulator Features

- ETSI 300 429, ITU J.83 Annex A, NorDig Unified, and C-Book compliant
- Wide symbol rate support: 1 to 7 Msps
- Supporting 16-, 32-, 64-, 128-, and 256-QAM
- Full-digital timing/frequency with wide acquisition range
- Automatic symbol rate and modulation type detection for fast channel scan
- Excellent narrow-band interference rejection capability

### Applications

- Set-top boxes
- Integrated digital televisions (iDTV)
- Network Interface Modules (NIMs)

## 2.4 U602(TAS5717LPHPR)

### General Description

The TAS5717/TAS5719 is a 10-W/15-W, efficient, digital audio-power amplifier for driving stereo bridge-tied speakers. One serial data input allows processing of up to two discrete audio channels and seamless integration to most digital audio processors and MPEG decoders. The device accepts a wide range of input data and data rates. A fully programmable data path routes these channels to the internal speaker drivers.

The TAS5717/9 is a slave-only device receiving all clocks from external sources. The TAS5717/TAS5719 operates with a PWM carrier between a 384-kHz switching rate and a 352-KHz switching rate, depending on the input sample rate. Oversampling combined with a fourth-order noise shaper provides a flat noise floor and excellent dynamic range from 20 Hz to 20 kHz.

### Features

#### • Audio Input/Output

- TAS5717 Supports 2×10 W and TAS5719 Supports 2×15 W Output
- Wide PVDD Range, From 4.5 V to 26 V
- Efficient Class-D Operation Eliminates Need for Heatsinks
- Requires Only 3.3 V and PVDD
- One Serial Audio Input (Two Audio Channels)
- I2C Address Selection via PIN (Chip Select)
- Supports 8-kHz to 48-kHz Sample Rate (LJ/RJ/I2S)
- External Headphone-Amplifier Shutdown Signal
- Integrated CAP-Free Headphone Amplifier
- Stereo Headphone (Stereo 2-V RMS Line Driver) Outputs DESCRIPTION

#### • Audio/PWM Processing

- Independent Channel Volume Controls With 24-dB to Mute
- Programmable Two-Band Dynamic Range Control
- 14 Programmable Biquads for Speaker EQ
- Programmable Coefficients for DRC Filters
- DC Blocking Filters
- 0.125-dB Fine Volume Support

#### • General Features

- Serial Control Interface Operational Without MCLK
- Factory-Trimmed Internal Oscillator for Automatic Rate Detection
- Surface Mount, 48-Pin, 7-mm × 7-mm HTQFP Package
- AD, BD, and Ternary PWM-Mode Support
- Thermal and Short-Circuit Protection

#### • Benefits

- EQ: Speaker Equalization Improves Audio Performance
- DRC: Dynamic Range Compression. Can Be Used As Power Limiter. Enables Speaker Protection, Easy Listening, Night-Mode Listening
- DirectPath Technology: Eliminates Bulky DC Blocking Capacitors

- Stereo Headphone/Stereo Line Drivers: Adjust Gain via External Resistors, Dedicated Active Headphone Mute Pin, High Signal-to-Noise Ratio
- Two-Band DRC: Set Two Different Thresholds for Low- and High-Frequency Content.

## 2.5 U501(TMDS251PAGR)

### General Description

The TMDS251 is a 2-port digital video interface (DVI) or high-definition multimedia interface (HDMI) switch that allows up to 2 DVI or HDMI ports to be switched to a single display terminal. Four TMDS channels, one hot plug detector, and a digital display control (DDC) interface are supported on each port. Each TMDS channel supports signaling rates up to 2.5 Gbps to allow 1080p resolution in 12-bit color depth.

The input port is enabled by configuring source selectors, S1 and S2. When an input port is selected, the TMDS inputs are connected to the TMDS outputs through a 2-to-1 multiplexer, the MOSFET between the input DDC channel and the output DDC channel is turned on, and the HPD output follows the state of the HPD\_SINK. The other input port is inactive with disconnected input terminations, disconnected TMDS inputs to the outputs, disconnected DDC inputs to the outputs, and the HPD outputs are low state. Check the source selection look up table for the details of port selections.

When S1 is high and S2 is low, all input terminations are disconnected, TMDS inputs are high impedance with standard TMDS terminations, all internal MOSFETs are turned off to disable the DDC links, and all HPD outputs are connected to the HPD\_SINK. This allows the initiation of the HDMI physical address discovery process.

Termination resistors (50-Ω), pulled up to VCC, are integrated at each TMDS receiver input. External terminations are not required. A precision resistor is connected externally from the VSADJ pin to ground for setting the differential output voltage to be compliant with the TMDS standard.

The TMDS251 provides two levels of receiver input equalization for different ranges of cable lengths. Each TMDS receiver owns frequency responsive equalization circuits. When EQ sets low, the receiver supports the input connection in short range HDMI cables. When EQ sets high, the receiver supports the input connection in long range HDMI cables. The TMDS251 supports power saving operation. When a system is under standby mode and there is no digital audio/visual content from a connected source, the 3.3-V supply voltage, VCC, can be powered off to minimize power consumption from the TMDS inputs, outputs, and internal switching circuits. The HPD, DDC, and source selection circuits are powered up by the 5-V supply voltage, VDD, to maintain the system hot plug detect response, the DDC link from the selected source to the sink under system standby operation. The device is characterized for operation from 0°C to 70°C.

### Features

- Compatible with HDMI 1.3a
- Supports 2.5 Gbps Signaling Rate for 480i/p, 720i/p, and 1080i/p Resolutions up to 12-Bit Color Depth TMDS351 with Port 3 Disabled
- Integrated Switchable Receiver Termination
- Selectable Receiver Equalization to Accommodate to Different Input Cable Lengths
- Intra-Pair Skew < 40 ps
- Inter-Pair Skew < 65 ps
- HBM ESD Protection Exceeds 8 kV to TMDS Inputs · Digital TV
- 3.3-V Fixed Supply to TMDS I/Os
- 5-V Fixed Supply to HPD, DDC, and Source Selection Circuits
- 64-Pin TQFP Package
- Footprint Compatible with 3-to-1 Switch TMDS351 with Port 3 Disabled
- ROHS Compatible and 260°C Reflow Rated
- TMDS250 is Available with Port 1 Disabled and Ports 2 and 3 Enabled
- Supports 5-V to 3.3-V Level Shifting on DDC Links

### Applications

- Digital TV
- Digital Projector

**2.6 U4051(NAND256W3A2BN6E)(for 32”)****General Description**

The NAND Flash 528 Byte/ 264 Word Page is a family of non-volatile Flash memories that uses the Single Level Cell (SLC) NAND cell technology.

It is referred to as the Small Page family. The devices range from 128Mbits to 1Gbit and operate with either a 1.8V or 3V voltage supply. The size of a Page is either 528 Bytes (512 + 16 spare) or 264 Words (256 + 8 spare) depending on whether the device has a x8 or x16 bus width. The address lines are multiplexed with the Data Input/Output signals on a multiplexed x8 or x16 Input/Output bus. This interface reduces the pin count and makes it possible to migrate to other densities without changing the footprint. Each block can be programmed and erased over 100,000 cycles. To extend the lifetime of NAND Flash devices it is strongly recommended to implement an Error Correction Code (ECC). A Write Protect pin is available to give a hardware protection against program and erase operations. The devices feature an open-drain Ready/Busy output that can be used to identify if the Program/ Erase/Read (P/E/R) Controller is currently active. The use of an open-drain output allows the Ready/Busy pins from several memories to be connected to a single pull-up resistor. A Copy Back command is available to optimize the management of defective blocks. When a Page Program operation fails, the data can be programmed in another page without having to resend the data to be programmed. The devices are available in the following packages:

- TSOP48 12 x 20mm for all products
- USOP48 12 x 17 x 0.65mm for 128Mb, 256Mb and 512Mb products
- VFBGA55 (8 x 10 x 1mm, 6 x 8 ball array, 0.8mm pitch) for 128Mb and 256Mb products
- VFBGA63 (9 x 11 x 1mm, 6 x 8 ball array, 0.8mm pitch) for the 512Mb product

All devices have the Chip Enable Don't Care option, which allows the code to be directly downloaded by a microcontroller, as Chip Enable transitions during the latency time do not stop the read operation. A Serial Number option, allows each device to be uniquely identified. The Serial Number options is subject to an NDA (Non Disclosure Agreement) and so not described in the datasheet. For more details of this option contact your nearest ST Sales office.

**Features**

- HIGH DENSITY NAND FLASH MEMORIES

- Up to 1 Gbit memory array
- Up to 32 Mbit spare area
- Cost effective solutions for mass storage applications

- NAND INTERFACE

- x8 or x16 bus width
- Multiplexed Address/ Data
- Pinout compatibility for all densities

- SUPPLY VOLTAGE

- 1.8V device: VDD = 1.7 to 1.95V
- 3.0V device: VDD = 2.7 to 3.6V

- PAGE SIZE

- x8 device: (512 + 16 spare) Bytes
- x16 device: (256 + 8 spare) Words

- BLOCK SIZE

- x8 device: (16K + 512 spare) Bytes
- x16 device: (8K + 256 spare) Words

- PAGE READ / PROGRAM

- Random access: 12µs (3V)/15us (1.8V) (max)
- Sequential access: 50ns (min)
- Page program time: 200µs (typ)

- COPY BACK PROGRAM MODE

- Fast page copy without external buffering

- FAST BLOCK ERASE

- Block erase time: 2ms (Typ)

- STATUS REGISTER

- ELECTRONIC SIGNATURE

- CHIP ENABLE 'DON'T CARE'

- Simple interface with microcontroller

- SERIAL NUMBER OPTION



#### ■ HARDWARE DATA PROTECTION

– Program/Erase locked during Power transitions

#### ■ DATA INTEGRITY

– 100,000 Program/Erase cycles

– 10 years Data Retention

#### ■ RoHS COMPLIANCE

– Lead-Free Components are Compliant with the RoHS Directive

#### ■ DEVELOPMENT TOOLS

– Error Correction Code software and hardware models

– Bad Blocks Management and Wear Leveling algorithms

– File System OS Native reference software

– Hardware simulation models

## U4051(HY27US08561A)(for 42”)

### General Description

The HYNIX HY27(U/S)S(08/16)561A series is a 32Mx8bit with spare 8Mx16 bit capacity. The device is offered in 1.8V Vcc Power Supply and in 3.3V Vcc Power Supply.

Its NAND cell provides the most cost-effective solution for the solid state mass storage market.

The memory is divided into blocks that can be erased independently so it is possible to preserve valid data while old data is erased.

The device contains 2048 blocks, composed by 32 pages consisting in two NAND structures of 16 series connected Flash cells.

A program operation allows to write the 512-byte page in typical 200us and an erase operation can be performed in typical 2ms on a 16K-byte(X8 device) block.

Data in the page mode can be read out at 50ns cycle time per byte. The I/O pins serve as the ports for address and data input/output as well as command input. This interface allows a reduced pin count and easy migration towards different densities, without any rearrangement of footprint.

Commands, Data and Addresses are synchronously introduced using CE, WE, ALE and CLE input pin.

The on-chip Program/Erase Controller automates all program and erase functions including pulse repetition, where required, and internal verification and margining of data.

The modifying can be locked using the WP input pin.

The output pin R/B (open drain buffer) signals the status of the device during each operation. In a system with multiple memories the R/B pins can be connected all together to provide a global status signal.

Even the write-intensive systems can take advantage of the HY27(U/S)S(08/16)561A extended reliability of 100K program/erase cycles by providing ECC (Error Correcting Code) with real time mapping-out algorithm.

The chip could be offered with the CE don't care function. This function allows the direct download of the code from the NAND Flash memory device by a microcontroller, since the CE transitions do not stop the read operation.

The copy back function allows the optimization of defective blocks management: when a page program operation fails the data can be directly programmed in another page inside the same array section without the time consuming serial data insertion phase.

This device includes also extra features like OTP/Unique ID area, Block Lock mechanism, Automatic Read at Power Up, Read ID2 extension.

The Hynix HY27(U/S)S(08/16)561A series is available in 48 - TSOP1 12 x 20 mm , 48 - USOP1 12 x 17 mm, FBGA 9 x 11 mm.

### Features

#### HIGH DENSITY NAND FLASH MEMORIES

- Cost effective solutions for mass storage applications

#### NAND INTERFACE

- x8 or x16 bus width.

- Multiplexed Address/ Data

- Pinout compatibility for all densities

#### SUPPLY VOLTAGE

- 3.3V device: VCC = 2.7 to 3.6V : HY27USXX561A

- 1.8V device: VCC = 1.7 to 1.95V : HY27SSXX561A

#### Memory Cell Array

= (512+16) Bytes x 32 Pages x 2,048 Blocks

## LC-32LE40E-LC-42LE40E

= (256+8) Words x 32 pages x 2,048 Blocks

### PAGE SIZE

- x8 device : (512 + 16 spare) Bytes

: HY27(U/S)S08561A

- x16 device: (256 + 8 spare) Words

: HY27(U/S)S16561A

### BLOCK SIZE

- x8 device: (16K + 512 spare) Bytes

- x16 device: (8K + 256 spare) Words

### PAGE READ / PROGRAM

- Random access: 3.3V: 12us (max.)

1.8V: 15us (max.)

- Sequential access: 3.3V: 50ns (min.)

1.8V: 60ns (min.)

- Page program time: 200us (typ.)

### COPY BACK PROGRAM MODE

- Fast page copy without external buffering

### FAST BLOCK ERASE

- Block erase time: 2ms (Typ.)

### STATUS REGISTER

### ELECTRONIC SIGNATURE

- 1st cycle : Manufacturer Code

- 2nd cycle: Device Code

### CHIP ENABLE DON'T CARE

- Simple interface with microcontroller

### AUTOMATIC PAGE 0 READ AT POWER-UP OPTION

- Boot from NAND support

- Automatic Memory Download

### SERIAL NUMBER OPTION

### HARDWARE DATA PROTECTION

- Program/Erase locked during Power transitions

### DATA INTEGRITY

- 100,000 Program/Erase cycles

(with 1bit/512byte ECC)

- 10 years Data Retention

### PACKAGE

- HY27(U/S)S(08/16)561A-T(P)

: 48-Pin TSOP1 (12 x 20 x 1.2 mm)

- HY27(U/S)S(08/16)561A-T (Lead)

- HY27(U/S)S(08/16)561A-TP (Lead Free)

- HY27(U/S)S(08/16)561A-S(P)

: 48-Pin USOP1 (12 x 17 x 0.65 mm)

- HY27(U/S)S(08/16)561A-S (Lead)

- HY27(U/S)S(08/16)561A-SP (Lead Free)

- HY27(U/S)S(08/16)561A-F(P)

: 63-Ball FBGA (9 x 11 x 1.0 mm)

- HY27(U/S)S(08/16)561A-F (Lead)

- HY27(U/S)S(08/16)561A-FP (Lead Free)

## 2.7 U4053(ICL3232ECV)

### General Description

The Intersil ICL32xxE devices are 3.0V to 5.5V powered RS-232 transmitters/receivers which meet EIA/TIA-232 and V.28/V.24 specifications, even at VCC = 3.0V. Additionally, they provide  $\pm 15\text{kV}$  ESD protection (IEC61000-4-2 Air Gap and Human Body Model) on transmitter outputs and receiver inputs (RS-232 pins). Targeted applications are PDAs, Palmtops, and notebook and laptop computers where the low operational, and even lower standby, power consumption is critical. Efficient on-chip charge pumps, coupled with manual and automatic power-down functions(except for the ICL3232E), reduce the standby supply current to a  $1\mu\text{A}$  trickle. Small footprint packaging, and the use of small, low value capacitors ensure board space savings as well. Data rates greater than 250kbps are guaranteed at worst case load conditions. This family is fully compatible with 3.3V-only systems, mixed 3.3V and 5.0V systems, and 5.0V-only systems.

The ICL324XE are 3-driver, 5-receiver devices that provide a complete serial port suitable for laptop or notebook computers. Both devices also include noninverting always-active receivers for “wake-up” capability.

The ICL3221E, ICL3223E and ICL3243E, feature an automatic power-down function which powers down the on-chip power-supply and driver circuits. This occurs when an attached peripheral device is shut off or the RS-232 cable is removed, conserving system power automatically without changes to the hardware or operating system. These devices power up again when a valid RS-232 voltage is applied to any receiver input.

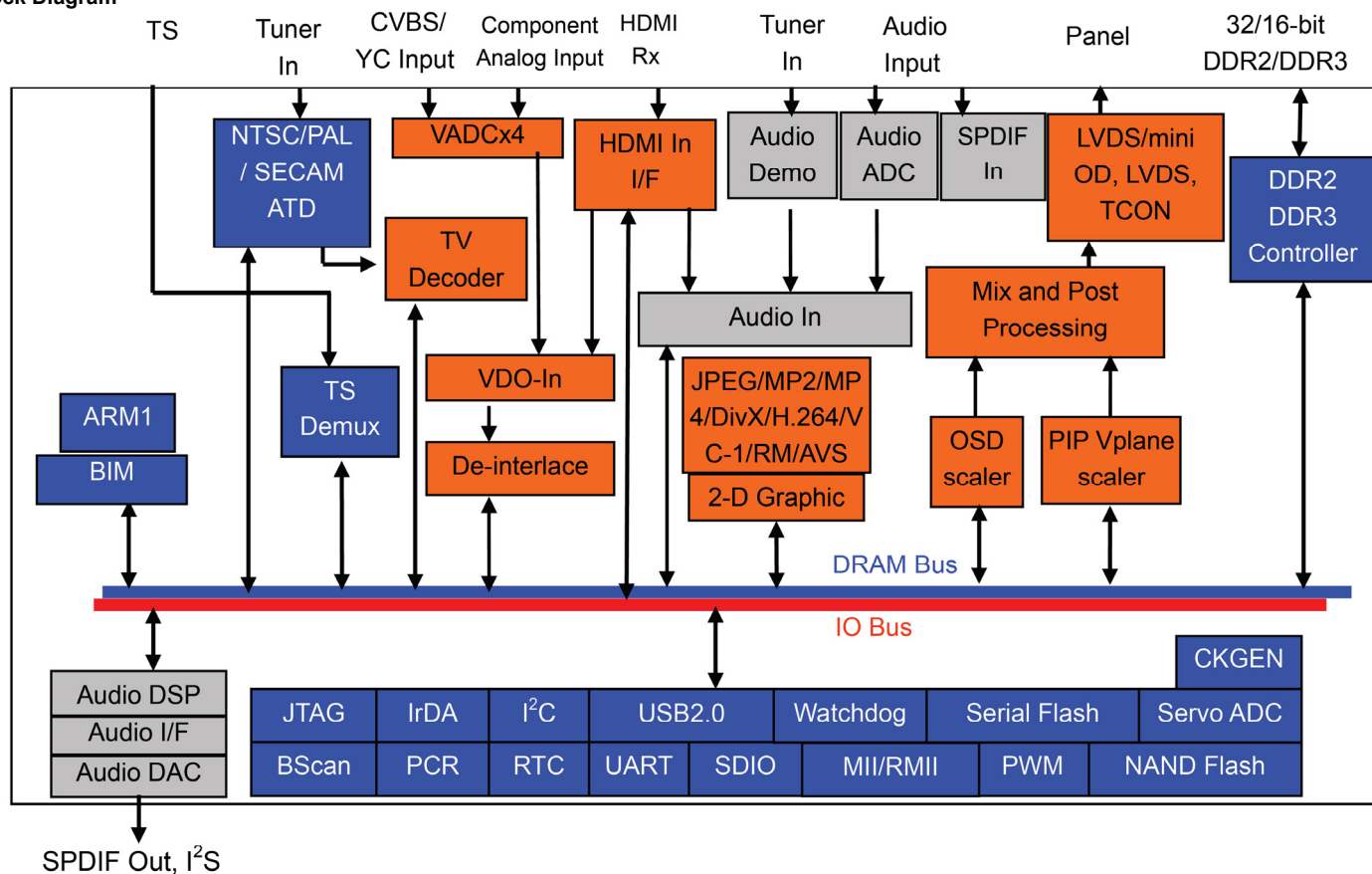
Table 1 summarizes the features of the devices represented by this data sheet, while Application Note AN9863 summarizes the features of each device comprising the ICL32xxE 3V family.

### Features

- ESD Protection for RS-232 I/O Pins to  $\pm 15\text{kV}$  (IEC61000)
- Drop in Replacements for MAX3221E, MAX3222E, MAX3223E, MAX3232E, MAX3241E, MAX3243E, SP3243E
- ICL3221E is a Low Power, Pin Compatible Upgrade for 5V MAX221E
- ICL3222E is a Low Power, Pin Compatible Upgrade for 5V MAX242E, and SP312E
- ICL3232E is a Low Power Upgrade for HIN232E, ICL232 and Pin Compatible Competitor Devices
- RS-232 Compatible with VCC = 2.7V
- Meets EIA/TIA-232 and V.28/V.24 Specifications at 3V
- Latch-Up Free
- On-Chip Voltage Converters Require Only Four External  $0.1\mu\text{F}$  Capacitors
- Manual and Automatic Power-down Features
- Guaranteed Mouse Driveability (ICL324XE Only)
- Receiver Hysteresis For Improved Noise Immunity
- Guaranteed Minimum Data Rate . . . . . 250kbps
- Wide Power Supply Range . . . . . Single +3V to +5.5V
- Low Supply Current in Power-down State . . . . .  $1\mu\text{A}$
- Pb-Free Available (RoHS Compliant)

### Applications

- Any System Requiring RS-232 Communication Ports
- Battery Powered, Hand-Held, and Portable Equipment
- Laptop Computers, Notebooks, Palmtops
- Modems, Printers and other Peripherals
- Digital Cameras
- Cellular/Mobile Phones

**[2] DETAILED ICS INFORMATION****3.1 U401(MT5366CAOU/B)****Block Diagram**

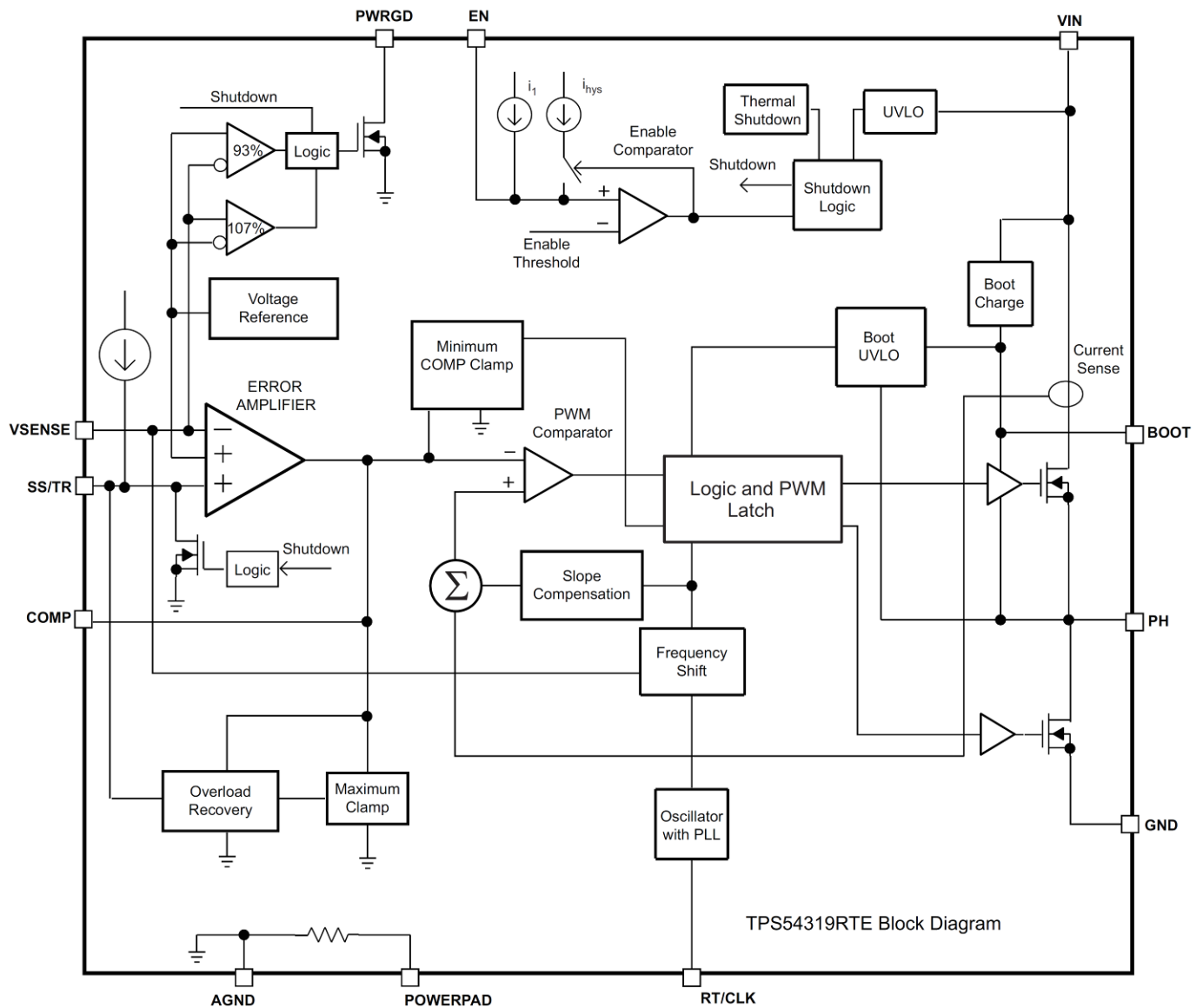
## Pin Connections and Short Description

|         |     |     |                 |
|---------|-----|-----|-----------------|
| GPIO4   | 255 | 192 | AVDD33_XTAL_STB |
| GPIO7   | 254 | 191 | XTALI           |
| GPIO8   | 253 | 190 | XTALO           |
| GPIO10  | 249 | 189 | AVDD33_DEMOD    |
| GPIO11  | 250 | 188 | AVSS33_DEMOD    |
| GPIO12  | 252 | 187 | AVSS12_DEMOD    |
| GPIO13  | 253 | 186 | AVDD33_I2PGA    |
| GPIO14  | 254 | 185 | ADCINN_DEMOD    |
| GPIO15  | 255 | 184 | ADCINP_DEMOD    |
| GPIO16  | 256 | 183 | AVDD12_DEMOD    |
| GPIO17  | 257 | 182 | AVDD33_CVBS     |
| GPIO18  | 258 | 181 | CVBS0P          |
| GPIO19  | 259 | 180 | CVBS_COM        |
| GPIO20  | 260 | 179 | CVBS1P          |
| GPIO21  | 261 | 178 | SY0             |
| GPIO22  | 262 | 177 | SC0             |
| GPIO23  | 263 | 176 | SY1             |
| GPIO24  | 264 | 175 | SC1             |
| GPIO25  | 265 | 174 | AVDD12_PLL      |
| GPIO26  | 266 | 173 | VCCK            |
| GPIO27  | 267 | 172 | FS_VDAC         |
| GPIO28  | 268 | 171 | AVDD33_VDAC     |
| GPIO29  | 269 | 170 | VDAC_OUT1       |
| GPIO30  | 270 | 169 | VDAC_OUT2       |
| GPIO31  | 271 | 168 | AVSS12_RGB      |
| GPIO32  | 272 | 167 | AVDD12_RGB      |
| GPIO33  | 273 | 166 | PR0P            |
| GPIO34  | 274 | 165 | PB0P            |
| GPIO35  | 275 | 164 | COM0            |
| GPIO36  | 276 | 163 | Y0P             |
| GPIO37  | 277 | 162 | SOY0            |
| GPIO38  | 278 | 161 | PR1P            |
| GPIO39  | 279 | 160 | PB1P            |
| GPIO40  | 280 | 159 | COM1            |
| GPIO41  | 281 | 158 | Y1P             |
| GPIO42  | 282 | 157 | SOY1            |
| GPIO43  | 283 | 156 | RP              |
| GPIO44  | 284 | 155 | COM             |
| GPIO45  | 285 | 154 | GP              |
| GPIO46  | 286 | 153 | SOG             |
| GPIO47  | 287 | 152 | BP              |
| GPIO48  | 288 | 151 | HSYNC           |
| GPIO49  | 289 | 150 | VSYN            |
| GPIO50  | 290 | 149 | AVDD33_VGA_STB  |
| GPIO51  | 291 | 148 | AVDD10_LDO      |
| GPIO52  | 292 | 147 | ADIN4_Srv       |
| GPIO53  | 293 | 146 | ADIN3_Srv       |
| GPIO54  | 294 | 145 | ADIN2_Srv       |
| GPIO55  | 295 | 144 | ADIN1_Srv       |
| GPIO56  | 296 | 143 | ADIN0_Srv       |
| GPIO57  | 297 | 142 | VCCK            |
| GPIO58  | 298 | 141 | VGA_SCL         |
| GPIO59  | 299 | 140 | VGA_SDA         |
| GPIO60  | 300 | 139 | OPWRSB          |
| GPIO61  | 301 | 138 | OPCTRL1         |
| GPIO62  | 302 | 137 | OPCTRL0         |
| GPIO63  | 303 | 136 | OIRI            |
| GPIO64  | 304 | 135 | U0TX            |
| GPIO65  | 305 | 134 | U0RX            |
| GPIO66  | 306 | 133 | AVDD33_PDM_STB  |
| GPIO67  | 307 | 132 | OPCTRL2         |
| GPIO68  | 308 | 131 | OPCTRL4         |
| GPIO69  | 309 | 130 | OPCTRL3         |
| GPIO70  | 310 | 129 | OPCTRL5         |
| GPIO71  | 311 | 128 | RESET           |
| GPIO72  | 312 | 127 | PWRSV           |
| GPIO73  | 313 | 126 | HDMI_HPD        |
| GPIO74  | 314 | 125 | HDMI_SCL        |
| GPIO75  | 315 | 124 | HDMI_SDA        |
| GPIO76  | 316 | 123 | HDMI_CEC        |
| GPIO77  | 317 | 122 | AVDD12_HDMI     |
| GPIO78  | 318 | 121 | RX_2            |
| GPIO79  | 319 | 120 | RX_2B           |
| GPIO80  | 320 | 119 | RX_1            |
| GPIO81  | 321 | 118 | RX_1B           |
| GPIO82  | 322 | 117 | RX_0            |
| GPIO83  | 323 | 116 | RX_0B           |
| GPIO84  | 324 | 115 | RX_C            |
| GPIO85  | 325 | 114 | RX_G8           |
| GPIO86  | 326 | 113 | AVDD33_HDMI     |
| GPIO87  | 327 | 112 | USB_2P_VRT      |
| GPIO88  | 328 | 111 | AVDD33_USB_2P   |
| GPIO89  | 329 | 110 | USB_2P_DP0      |
| GPIO90  | 330 | 109 | USB_2P_DP1      |
| GPIO91  | 331 | 108 | USB_2P_DP1      |
| GPIO92  | 332 | 107 | USB_2P_DM1      |
| GPIO93  | 333 | 106 | VCCK            |
| GPIO94  | 334 | 105 | VCC310          |
| GPIO95  | 335 | 104 | OPWM0           |
| GPIO96  | 336 | 103 | JTRST           |
| GPIO97  | 337 | 102 | JTDI            |
| GPIO98  | 338 | 101 | JTMS            |
| GPIO99  | 339 | 100 | JTCK            |
| GPIO100 | 340 | 99  | JTDO            |
| GPIO101 | 341 | 98  | VCCK            |
| GPIO102 | 342 | 97  | RCLK0_RCLK0     |
| GPIO103 | 343 | 96  | RCLK0_RCLK0     |
| GPIO104 | 344 | 95  | VCC210          |
| GPIO105 | 345 | 94  | RD05/RD05       |
| GPIO106 | 346 | 93  | RD02/RD07       |
| GPIO107 | 347 | 92  | VCC210          |
| GPIO108 | 348 | 91  | RD00/RD03       |
| GPIO109 | 349 | 90  | RD07/RD01       |
| GPIO110 | 350 | 89  | RD13/RD08       |
| GPIO111 | 351 | 88  | RD10/RD10       |
| GPIO112 | 352 | 87  | VCC210          |
| GPIO113 | 353 | 86  | RD08/RD14       |
| GPIO114 | 354 | 85  | RD15/RD12       |
| GPIO115 | 355 | 84  | RD01/RD01       |
| GPIO116 | 356 | 83  | RD01/RD01       |
| GPIO117 | 357 | 82  | VCC210          |
| GPIO118 | 358 | 81  | RD00/RD00       |
| GPIO119 | 359 | 80  | RD00/RD00       |
| GPIO120 | 360 | 79  | RD00/RD00       |
| GPIO121 | 361 | 78  | VCC210          |
| GPIO122 | 362 | 77  | RD01/RD01       |
| GPIO123 | 363 | 76  | RD11/RD15       |
| GPIO124 | 364 | 75  | RD11/RD15       |
| GPIO125 | 365 | 74  | RD11/RD15       |
| GPIO126 | 366 | 73  | RD09/RD09       |
| GPIO127 | 367 | 72  | RD12/RD11       |
| GPIO128 | 368 | 71  | RD06/RD00       |
| GPIO129 | 369 | 70  | RD11/RD02       |
| GPIO130 | 370 | 69  | VCC210          |
| GPIO131 | 371 | 68  | RD03/RD06       |
| GPIO132 | 372 | 67  | RD04/RD04       |
| GPIO133 | 373 | 66  | RVREF           |
| GPIO134 | 374 | 65  | VCCK            |
| GPIO135 | 375 | 64  | RCKE/RODT       |
| GPIO136 | 376 | 63  | RWE_RCS         |
| GPIO137 | 377 | 62  | RBA2/RBA0       |
| GPIO138 | 378 | 61  | RBA0/RBA2       |
| GPIO139 | 379 | 60  | RBA1/RBA3       |
| GPIO140 | 380 | 59  | RA10/RA5        |
| GPIO141 | 381 | 58  | RA1/RA2         |
| GPIO142 | 382 | 57  | RA3/RA7         |
| GPIO143 | 383 | 56  | NC/RRRESET      |
| GPIO144 | 384 | 55  | RA5/RA9         |
| GPIO145 | 385 | 54  | RA7/RA13        |
| GPIO146 | 386 | 53  | RA12/RA0        |
| GPIO147 | 387 | 52  | VCC210          |
| GPIO148 | 388 | 51  | RA9/RWE         |
| GPIO149 | 389 | 50  | RRAS_RRAS       |
| GPIO150 | 390 | 49  | RCS_RRAS        |
| GPIO151 | 391 | 48  | RCAS_RAS12      |
| GPIO152 | 392 | 47  | RA2/RA11        |
| GPIO153 | 393 | 46  | RA0/RA8         |
| GPIO154 | 394 | 45  | RA6/RA6         |
| GPIO155 | 395 | 44  | RA4/RA1         |
| GPIO156 | 396 | 43  | RA11/RA4        |
| GPIO157 | 397 | 42  | RA13/RBA1       |
| GPIO158 | 398 | 41  | RA8/RA10        |
| GPIO159 | 399 | 40  | RODT/RCKE       |
| GPIO160 | 400 | 39  | AVSS12_MEMPLL   |
| GPIO161 | 401 | 38  | AVDD12_MEMPLL   |
| GPIO162 | 402 | 37  | VCCK            |
| GPIO163 | 403 | 36  | VCCK            |
| GPIO164 | 404 | 35  | VCCK            |
| GPIO165 | 405 | 34  | AO0N            |
| GPIO166 | 406 | 33  | AO0P            |
| GPIO167 | 407 | 32  | AO1N            |
| GPIO168 | 408 | 31  | AO1P            |
| GPIO169 | 409 | 30  | AO2N            |
| GPIO170 | 410 | 29  | AO2P            |
| GPIO171 | 411 | 28  | AOCKN           |
| GPIO172 | 412 | 27  | AOCKP           |
| GPIO173 | 413 | 26  | AO3N            |
| GPIO174 | 414 | 25  | AO3P            |
| GPIO175 | 415 | 24  | AO4N            |
| GPIO176 | 416 | 23  | AO4P            |
| GPIO177 | 417 | 22  | AO5N            |
| GPIO178 | 418 | 21  | AO5P            |
| GPIO179 | 419 | 20  | AVDD33_LVDSA    |
| GPIO180 | 420 | 19  | AVDD33_LVDSA    |
| GPIO181 | 421 | 18  | AE0N            |
| GPIO182 | 422 | 17  | AE0P            |
| GPIO183 | 423 | 16  | AE1N            |
| GPIO184 | 424 | 15  | AE1P            |
| GPIO185 | 425 | 14  | AE2N            |
| GPIO186 | 426 | 13  | AE2P            |
| GPIO187 | 427 | 12  | AECKN           |
| GPIO188 | 428 | 11  | AECKP           |
| GPIO189 | 429 | 10  | AE3N            |
| GPIO190 | 430 | 9   | AE3P            |
| GPIO191 | 431 | 8   | AE4N            |
| GPIO192 | 432 | 7   | AE4P            |
| GPIO193 | 433 | 6   | AE5N            |
| GPIO194 | 434 | 5   | AE5P            |
| GPIO195 | 435 | 4   | AVDD12_VPLL     |
| GPIO196 | 436 | 3   | VCC310          |
| GPIO197 | 437 | 2   | GPIO14          |
| GPIO198 | 438 | 1   | FSRC_WR         |

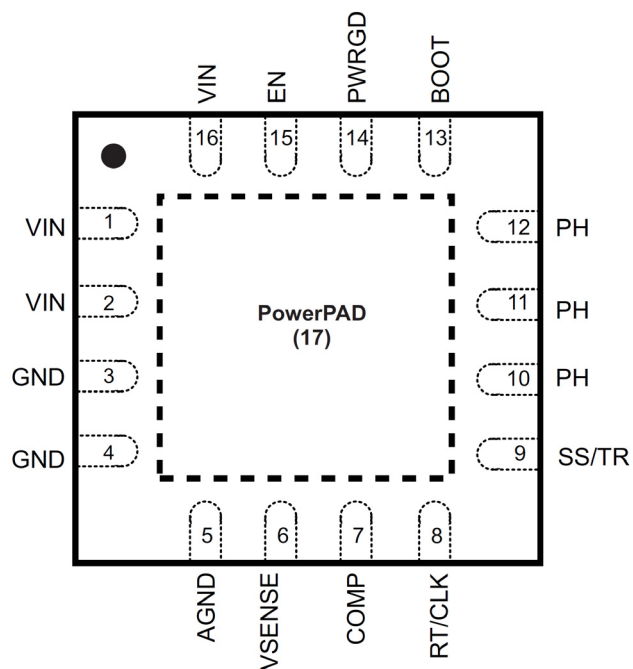
# LC-32LE40E-LC-42LE40E

## 3.2 U701/U702(TPS54319RTER)

### Block Diagram

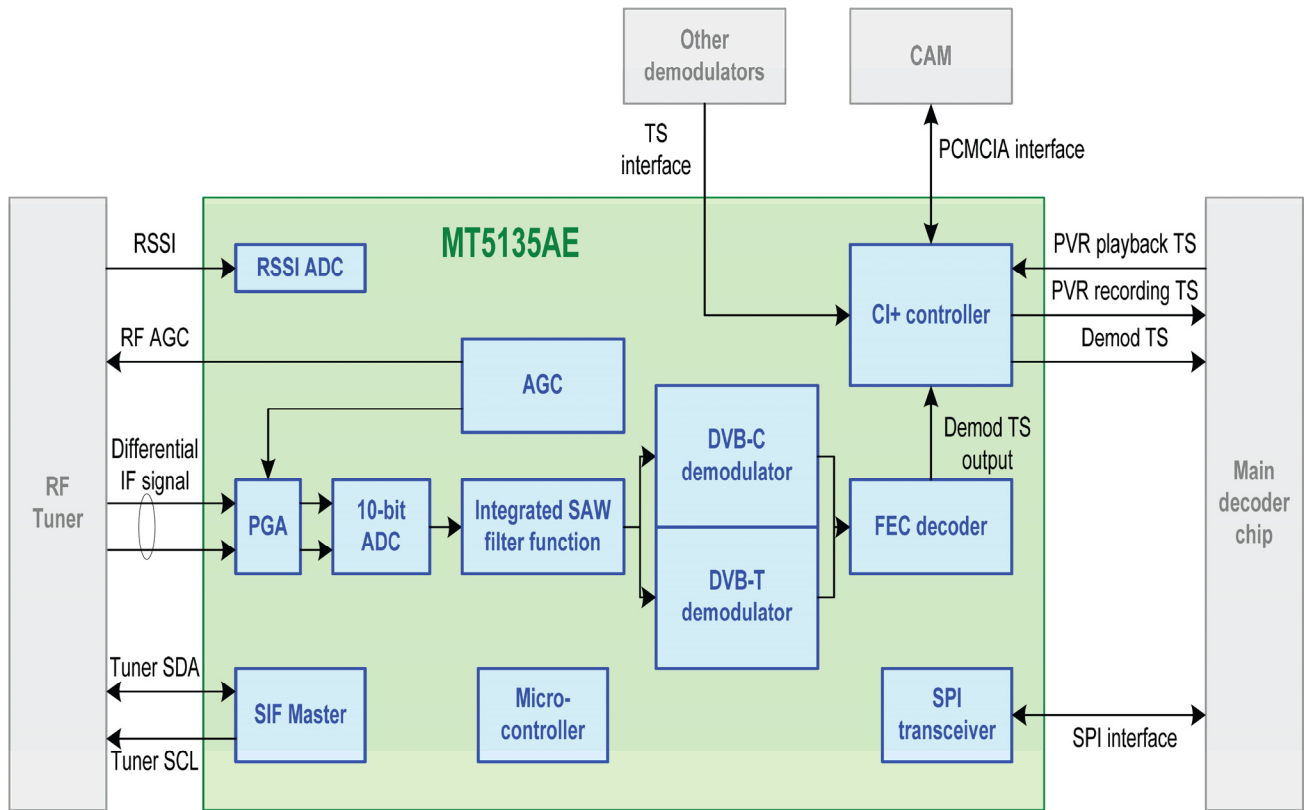


### Pin Connections and Short Description

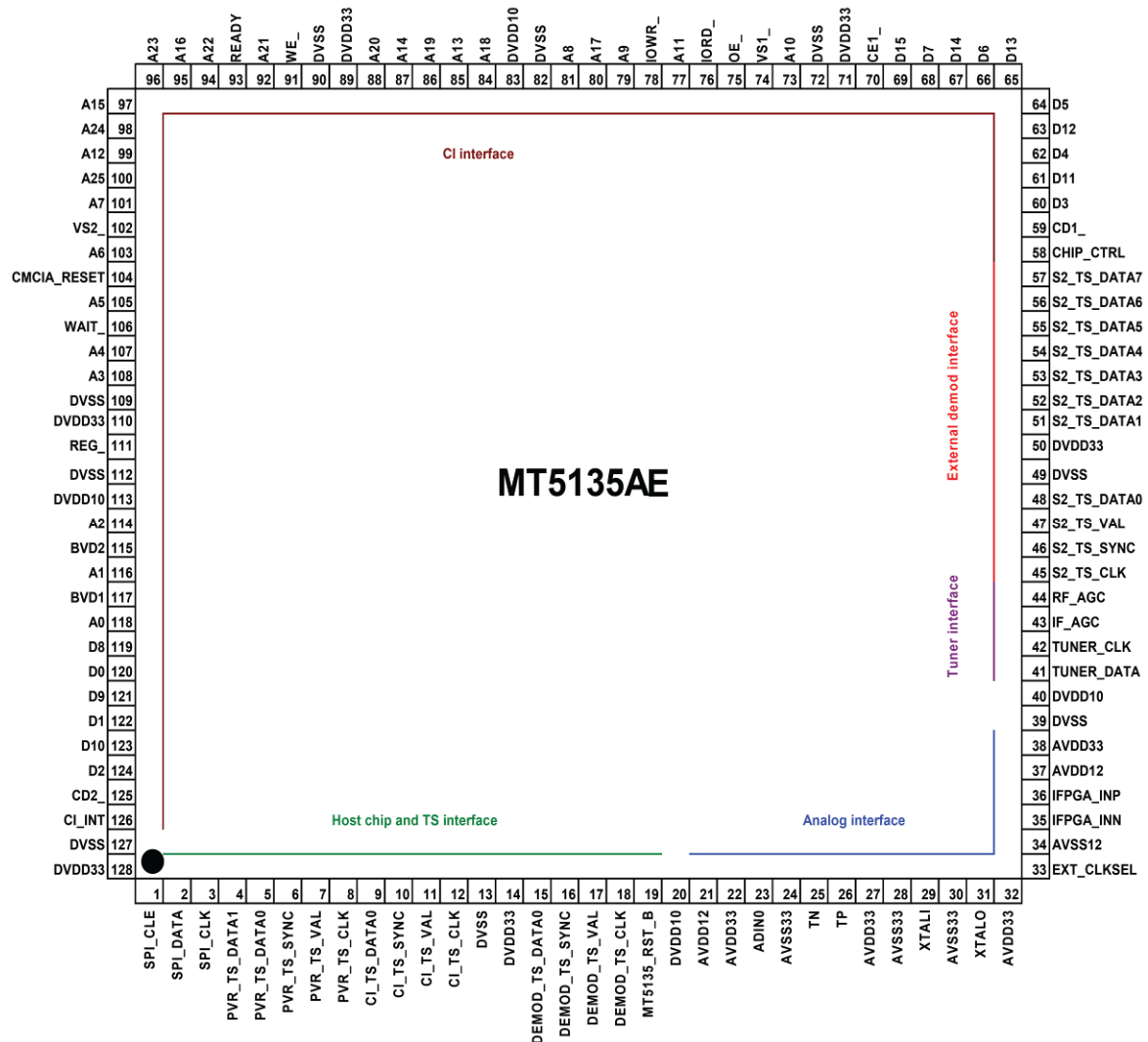


## 3.3 U1011(MT5135AE/A)

## Block Diagram



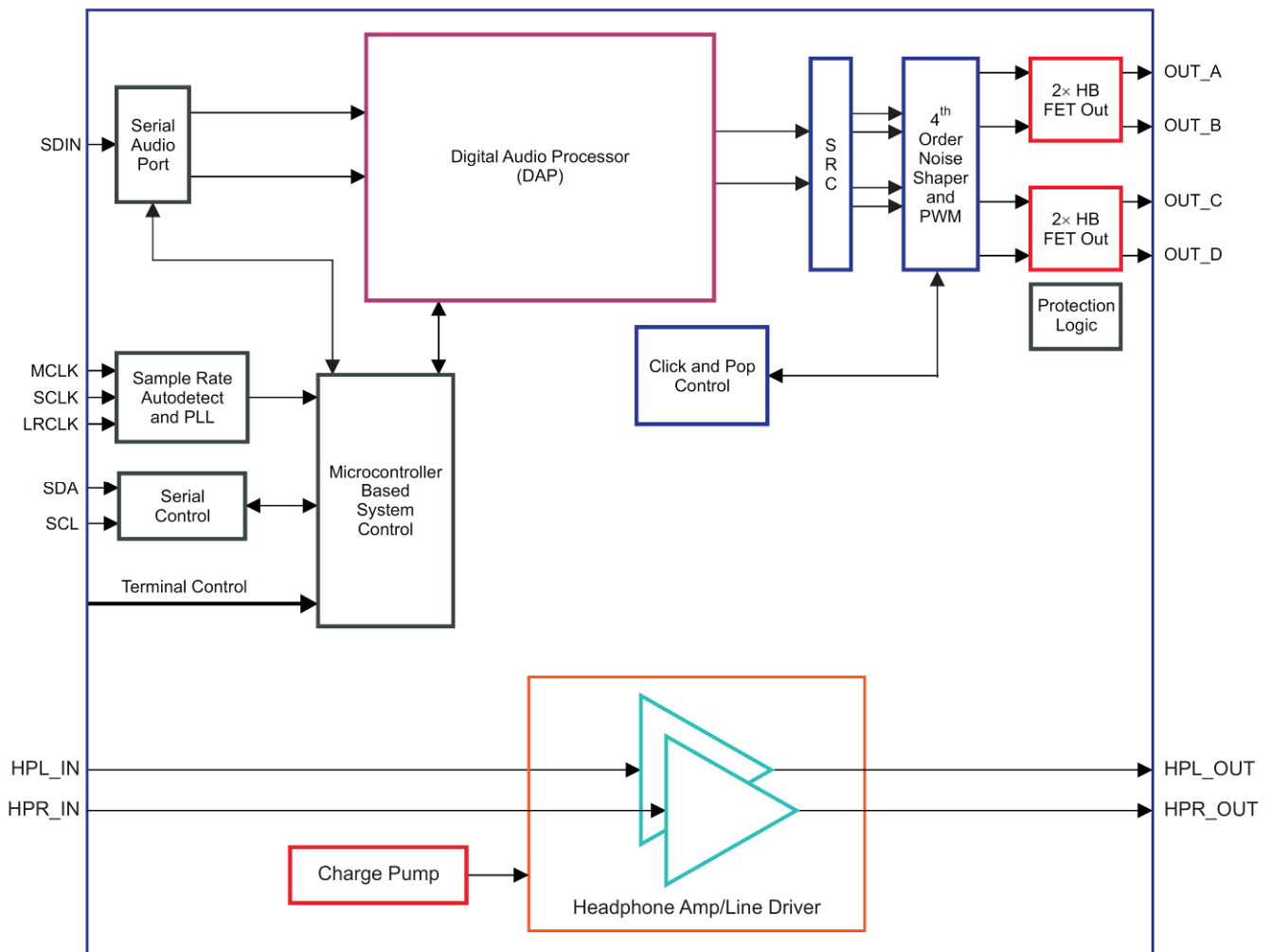
## Pin Connections and Short Description



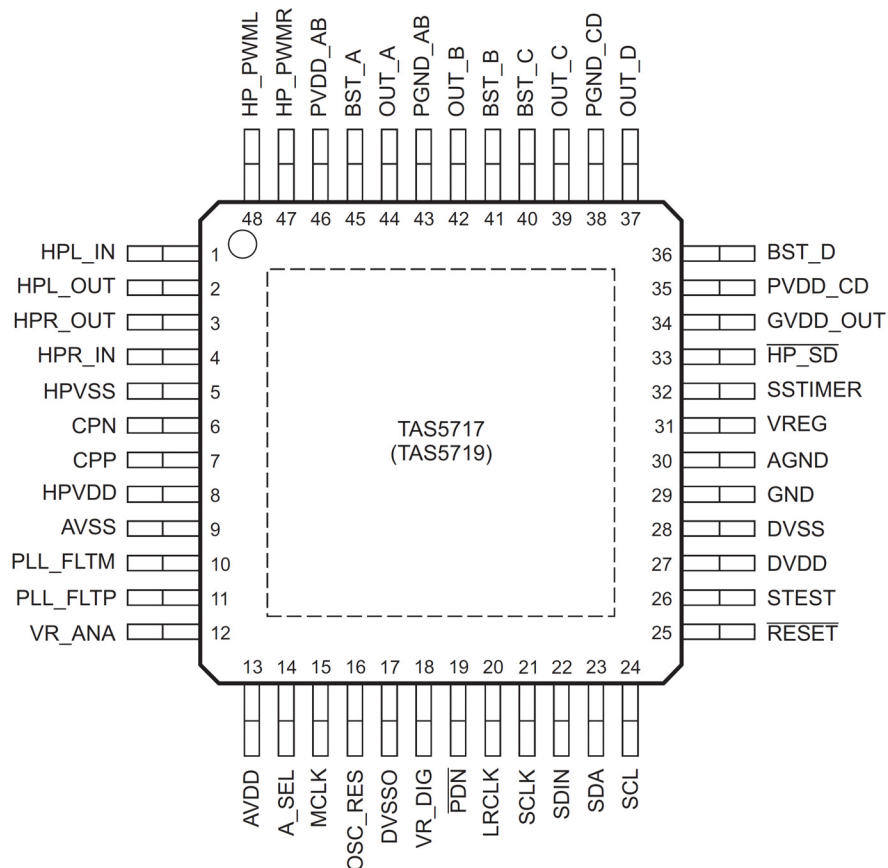
# LC-32LE40E-LC-42LE40E

## 3.4 U602(TAS5717LPHPR)

### Block Diagram



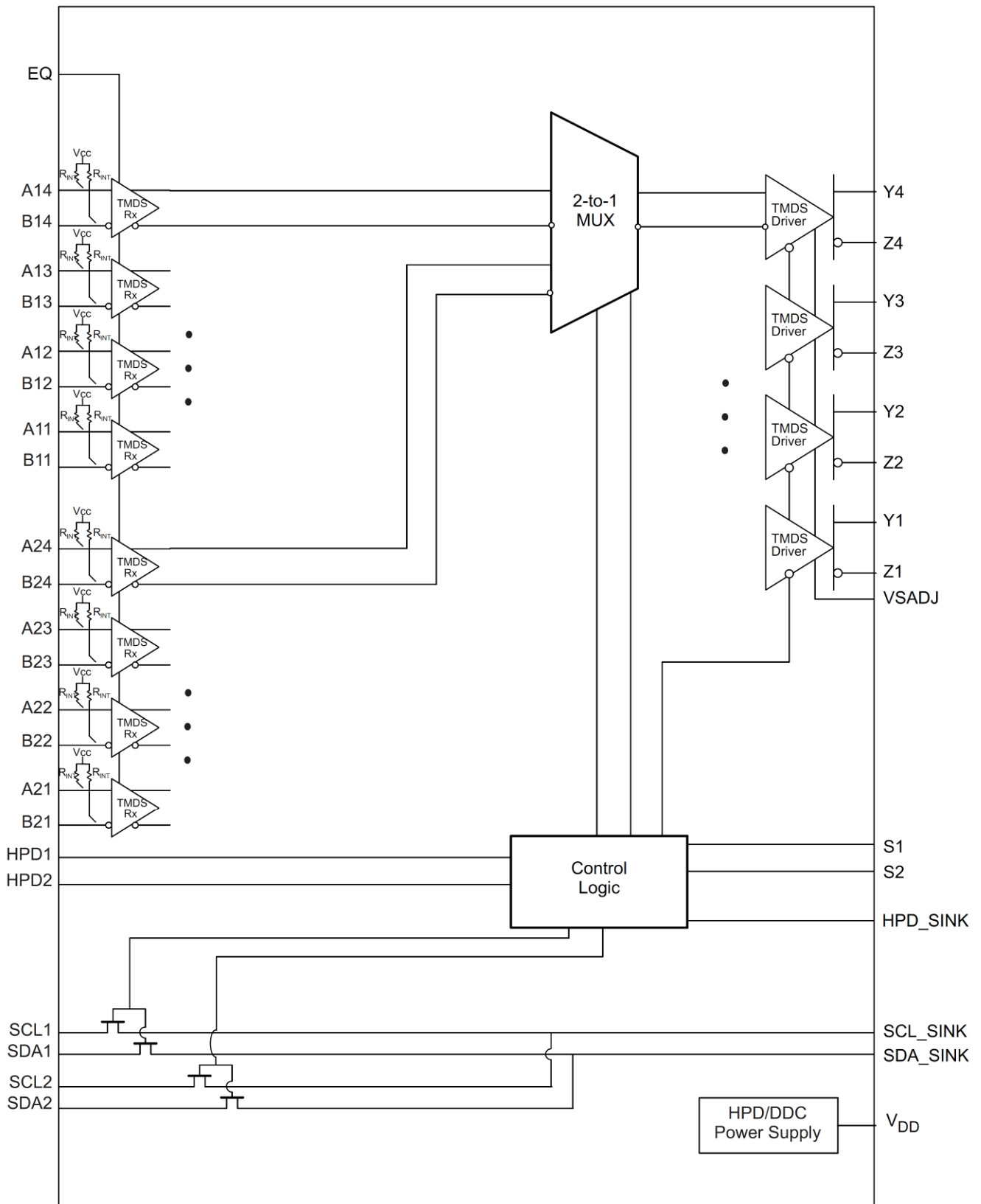
### Pin Connections and Short Description





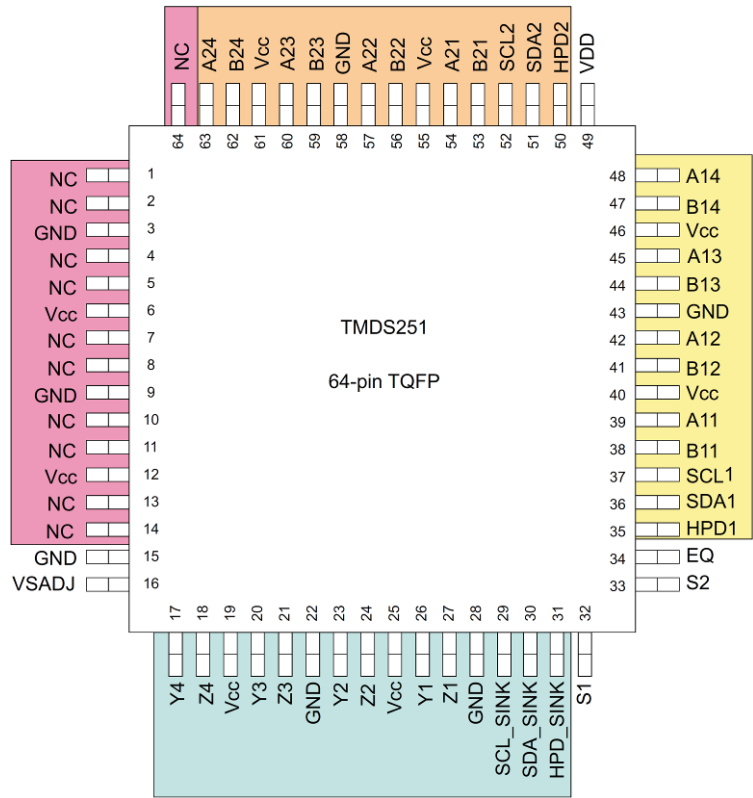
## 3.5 U501(TMDS251PAGR)

## Block Diagram



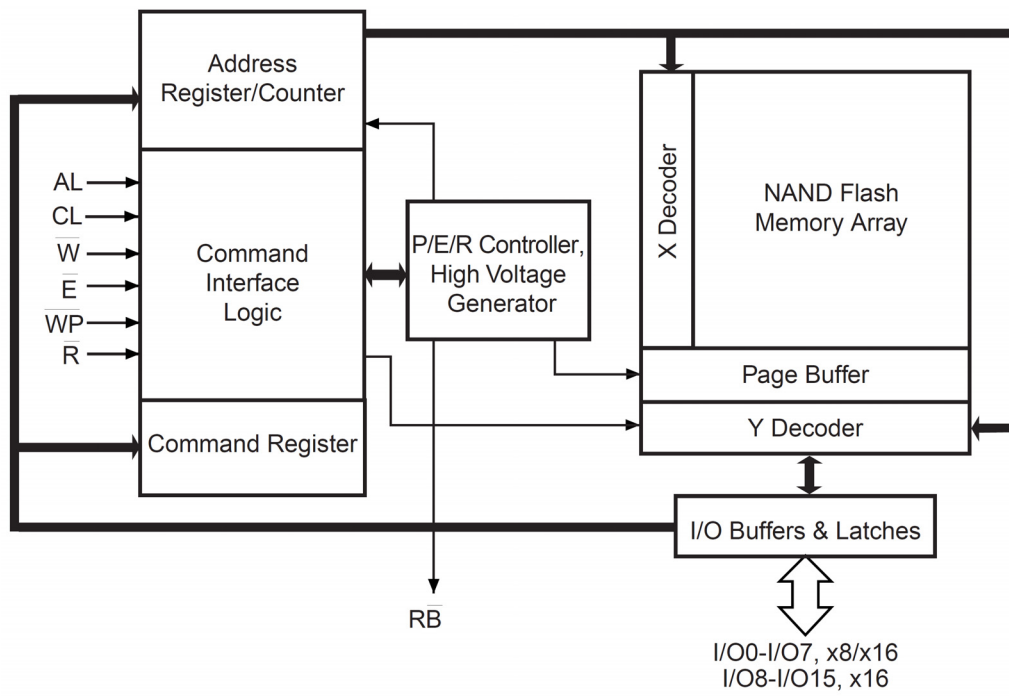
LC-32LE40E-LC-42LE40E

Pin Connections and Short Description

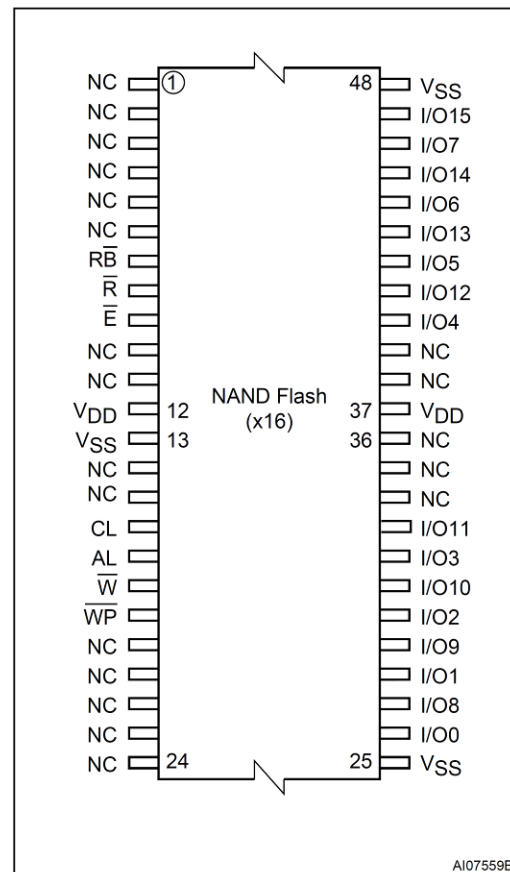
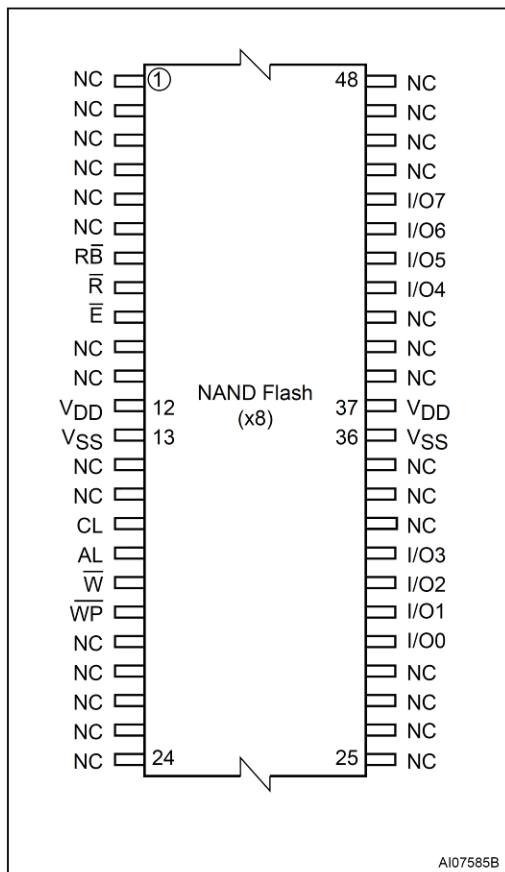


### 3.6 U4051(NAND256W3A2BN6E)(for LC-32LE40E)

#### Block Diagram

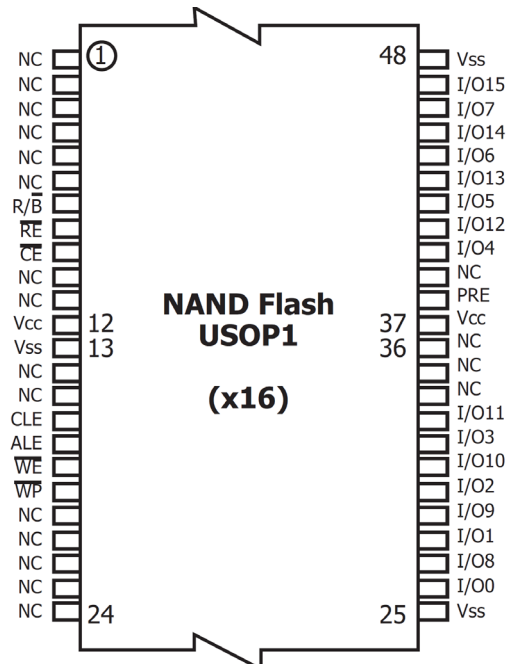
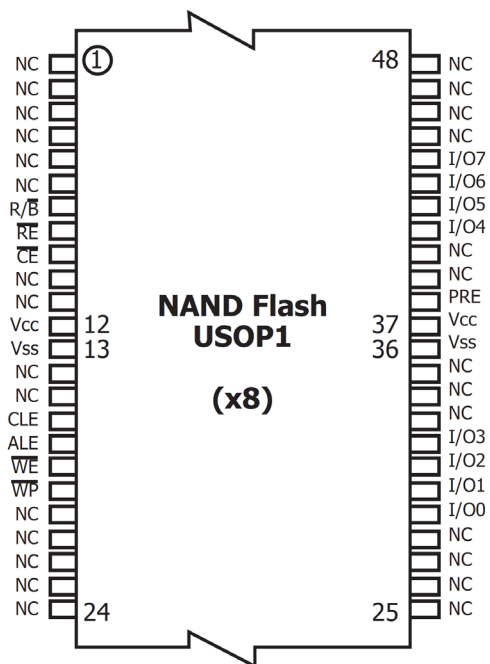
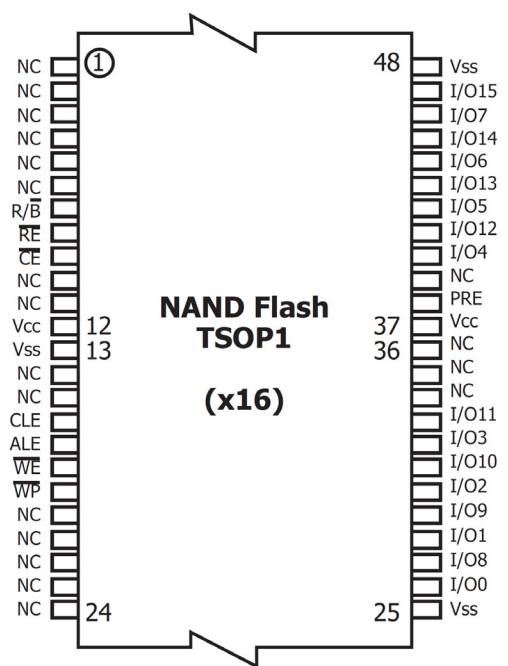
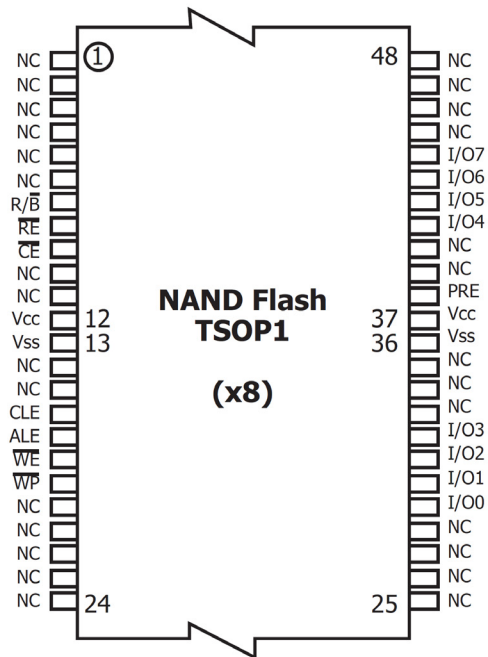


#### Pin Connections and Short Description



LC-32LE40E-LC-42LE40E  
**U4051(HY27US08561A)(for LC-42LE40E)**

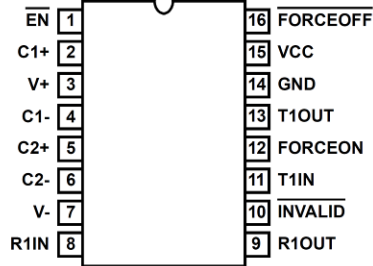
Pin Connections and short description



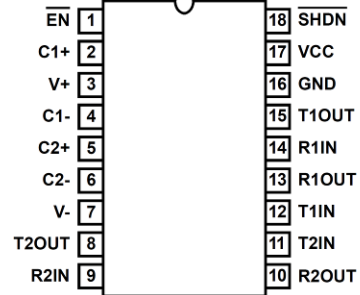
### 3.7 U4053(ICL3232ECV)

Pin Connections and short description

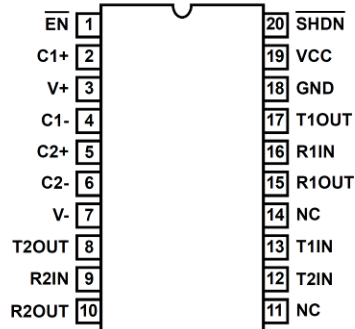
ICL3221E  
(16 LD SSOP, TSSOP)  
TOP VIEW



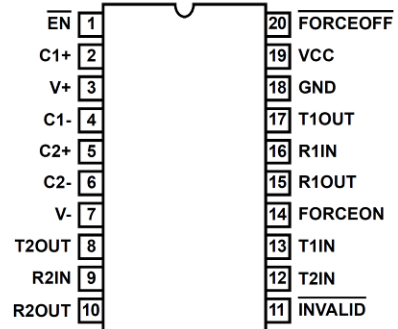
ICL3222E  
(18 LD PDIP, SOIC)  
TOP VIEW



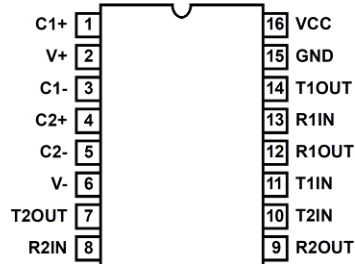
ICL3222E  
(20 LD SSOP, TSSOP)  
TOP VIEW



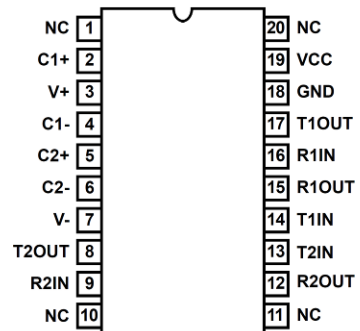
ICL3223E  
(20 LD SSOP, TSSOP)  
TOP VIEW



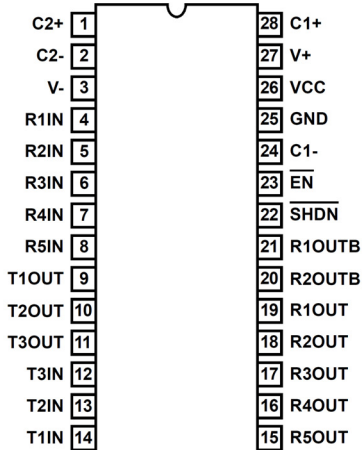
ICL3232E  
(16 LD SOIC, SSOP, TSSOP-16)  
TOP VIEW



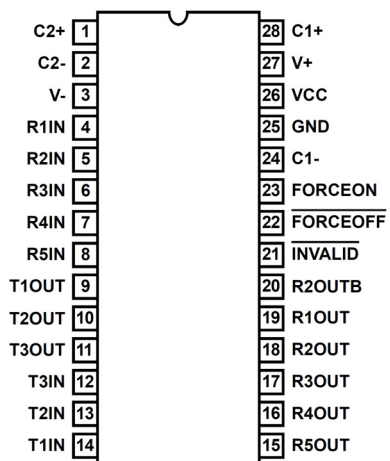
ICL3232E  
(20 LD TSSOP-20)  
TOP VIEW



ICL3241E  
(28 LD SOIC, SSOP, TSSOP)  
TOP VIEW

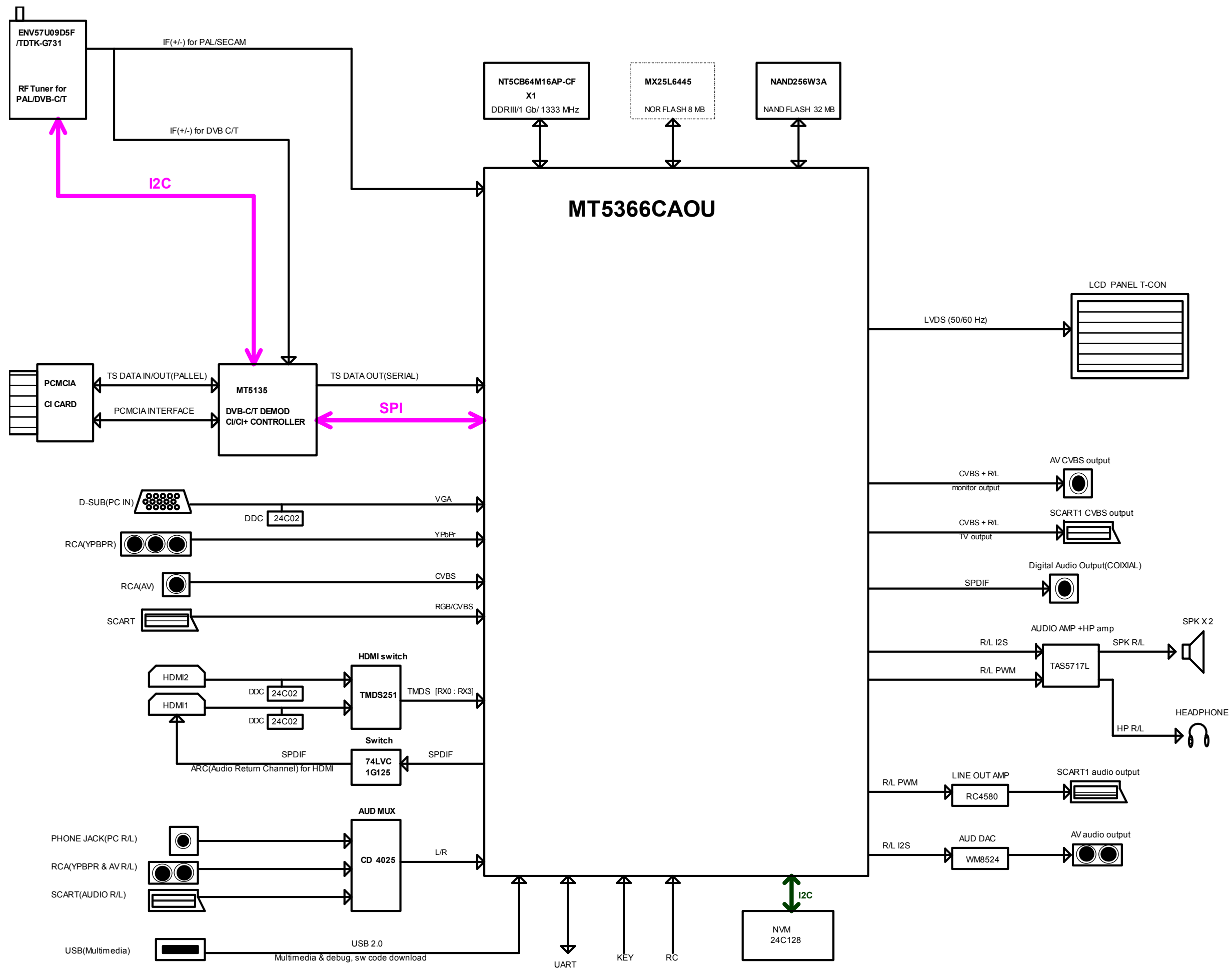


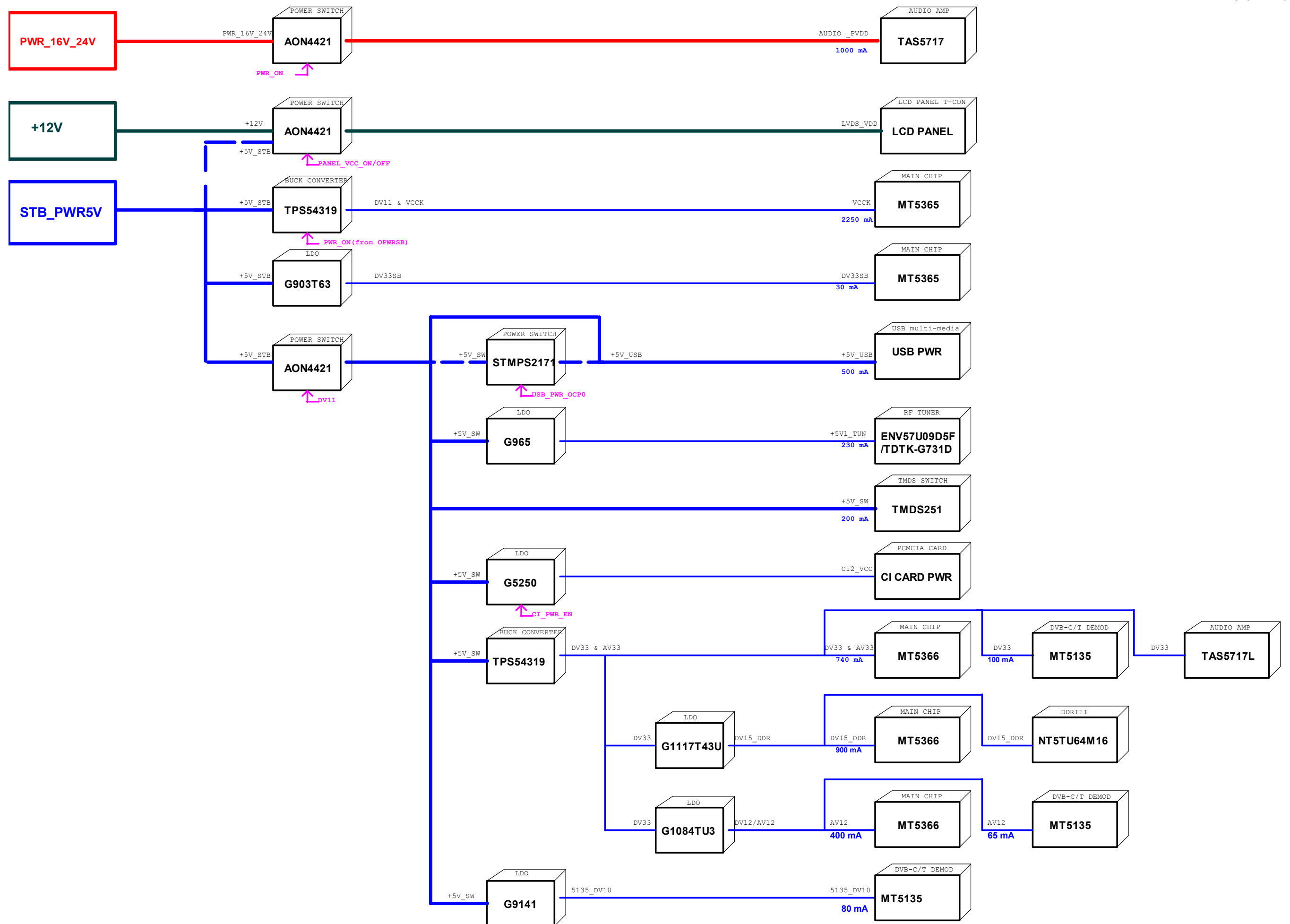
ICL3243E  
(28 LD SOIC, SSOP, TSSOP)  
TOP VIEW



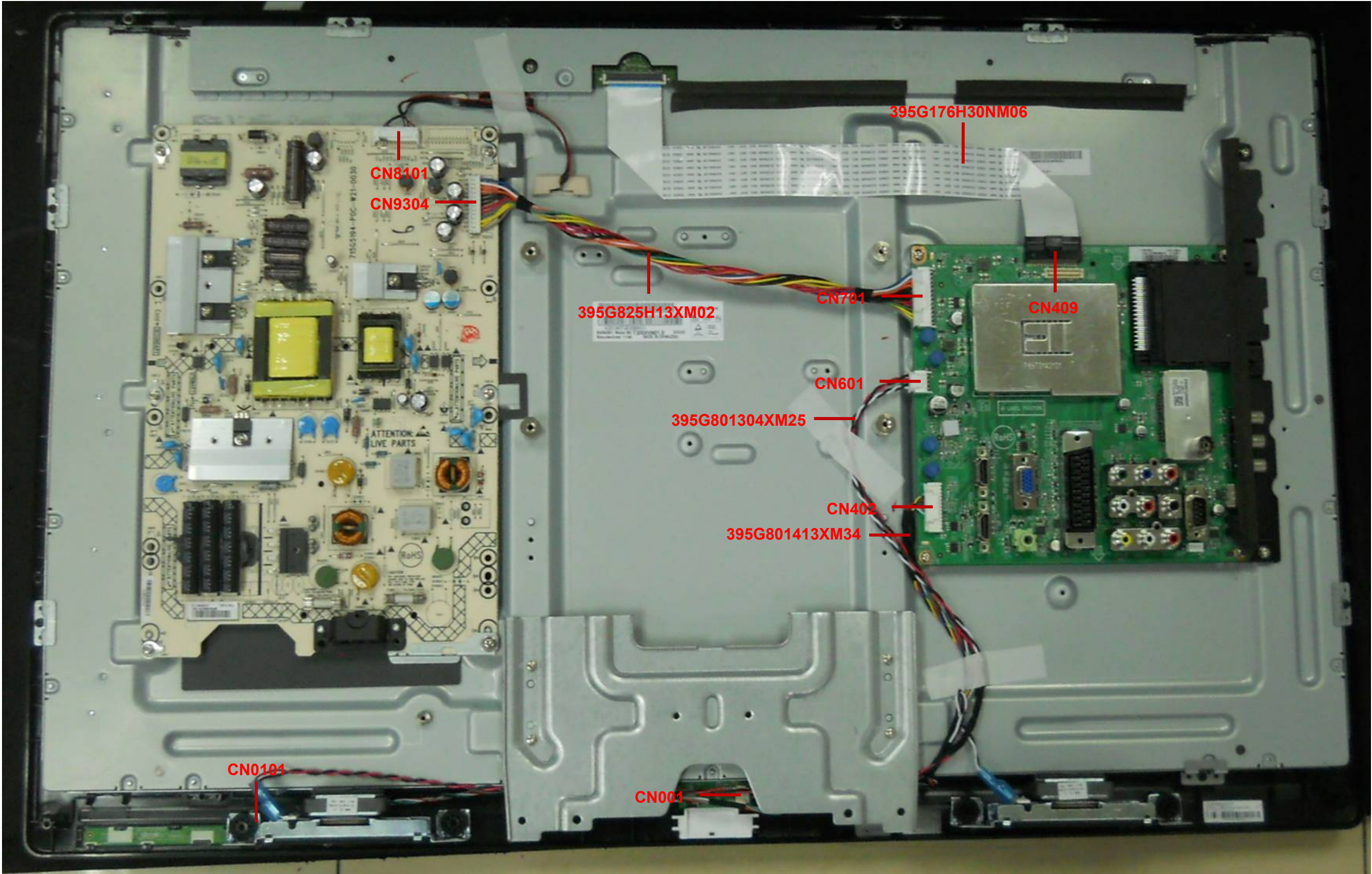
CHAPTER 6. BLOCK DIAGRAM/WIRING DIAGRAM

[1] BLOCK DIAGRAM

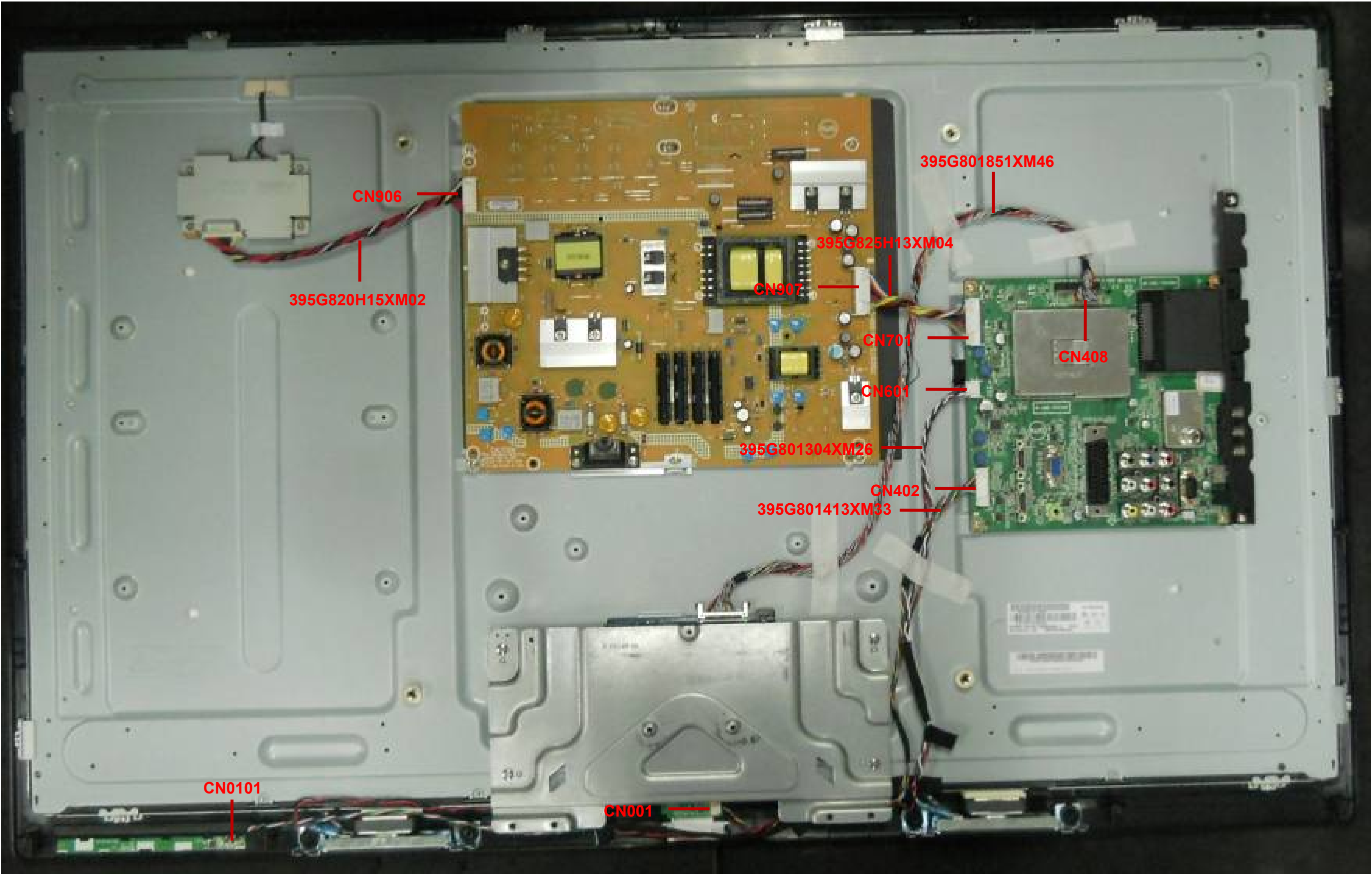






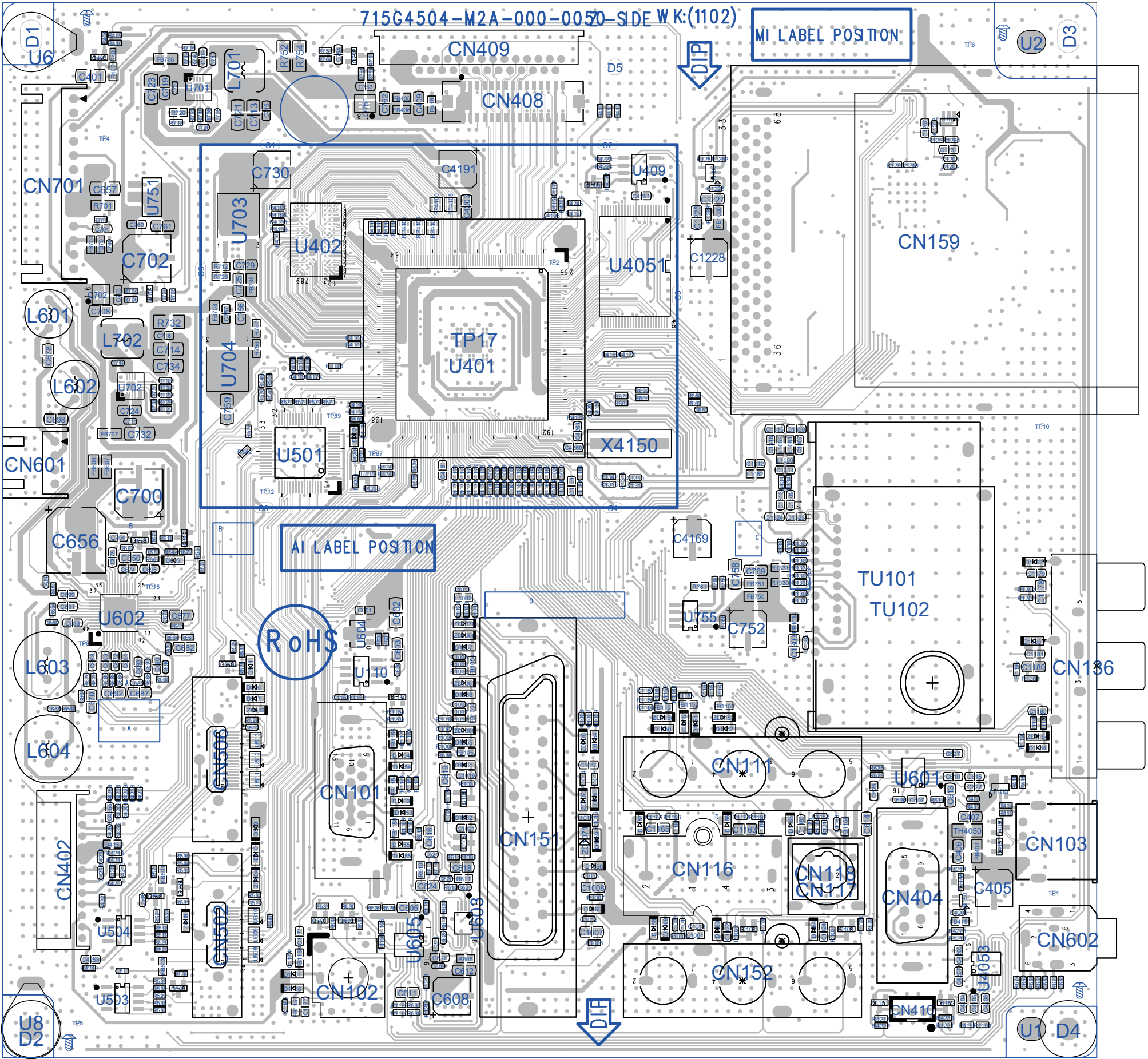






CHAPTER 7. PRINTED WIRING BOARD

[1] MAIN UNIT PRINTED WIRING BOARD  
MAIN UNIT(Side-A)







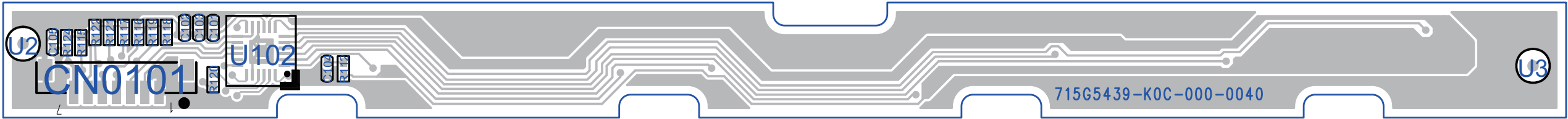




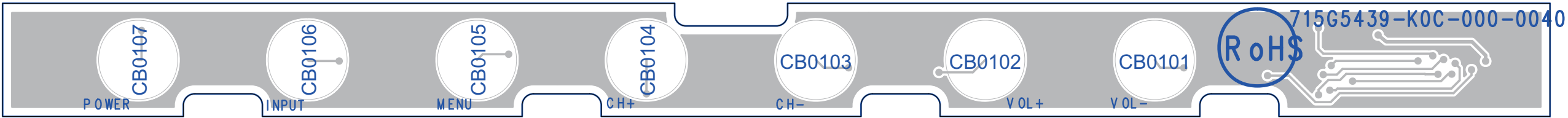




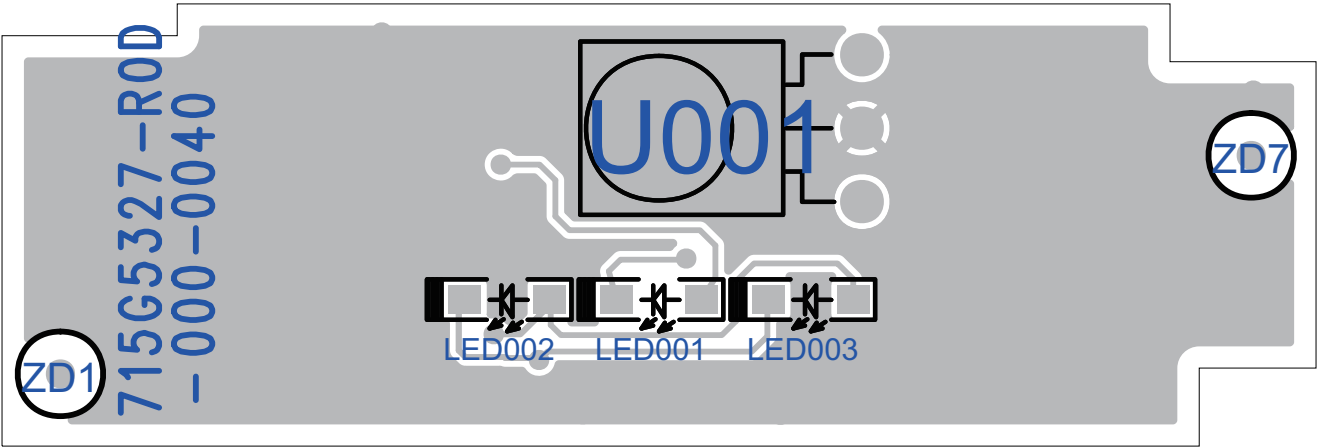
LC-32LE40E-LC-42LE40E  
[3] KEY UNIT PRINTED WIRING BOARD  
KEY UNIT(Side-A)



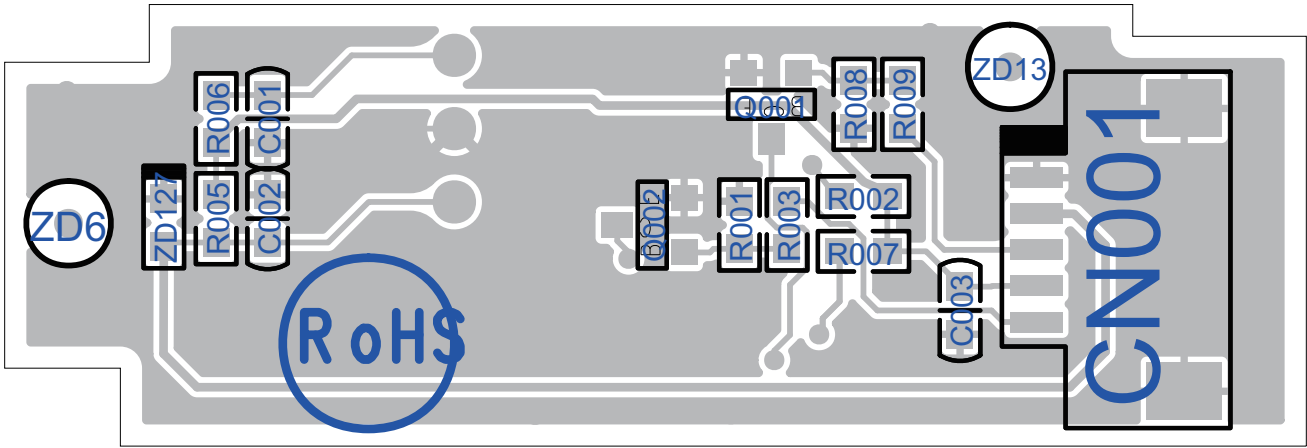
KEY UNIT(Side-B)



[4] IR UNIT PRINTED WIRING BOARD  
IR UNIT(Side-A)



IR UNIT(Side-B)

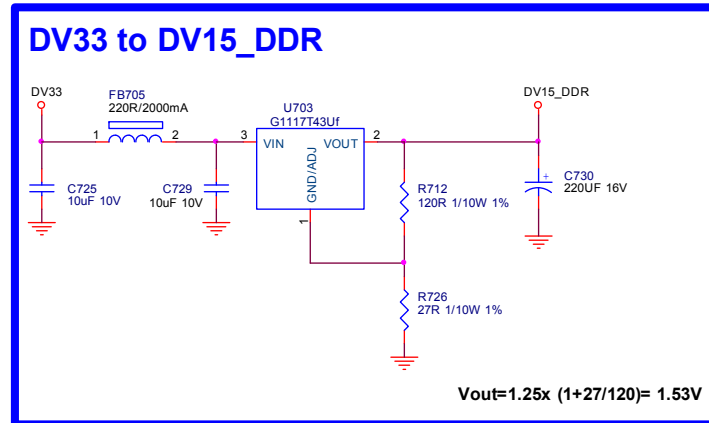
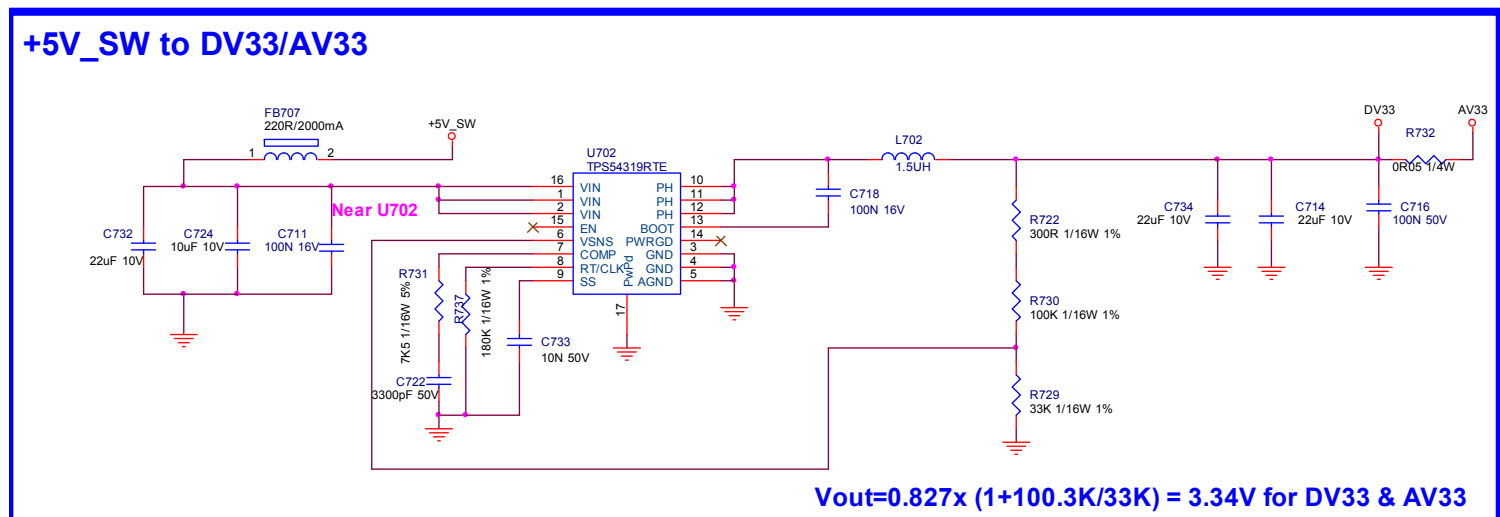
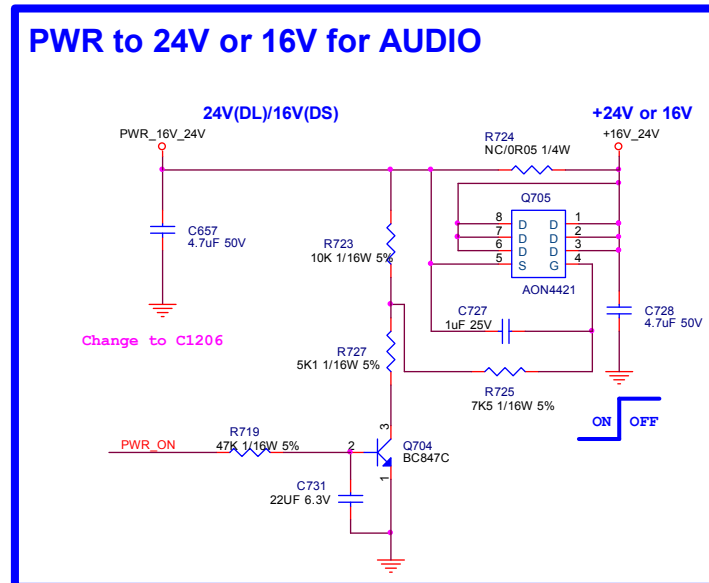
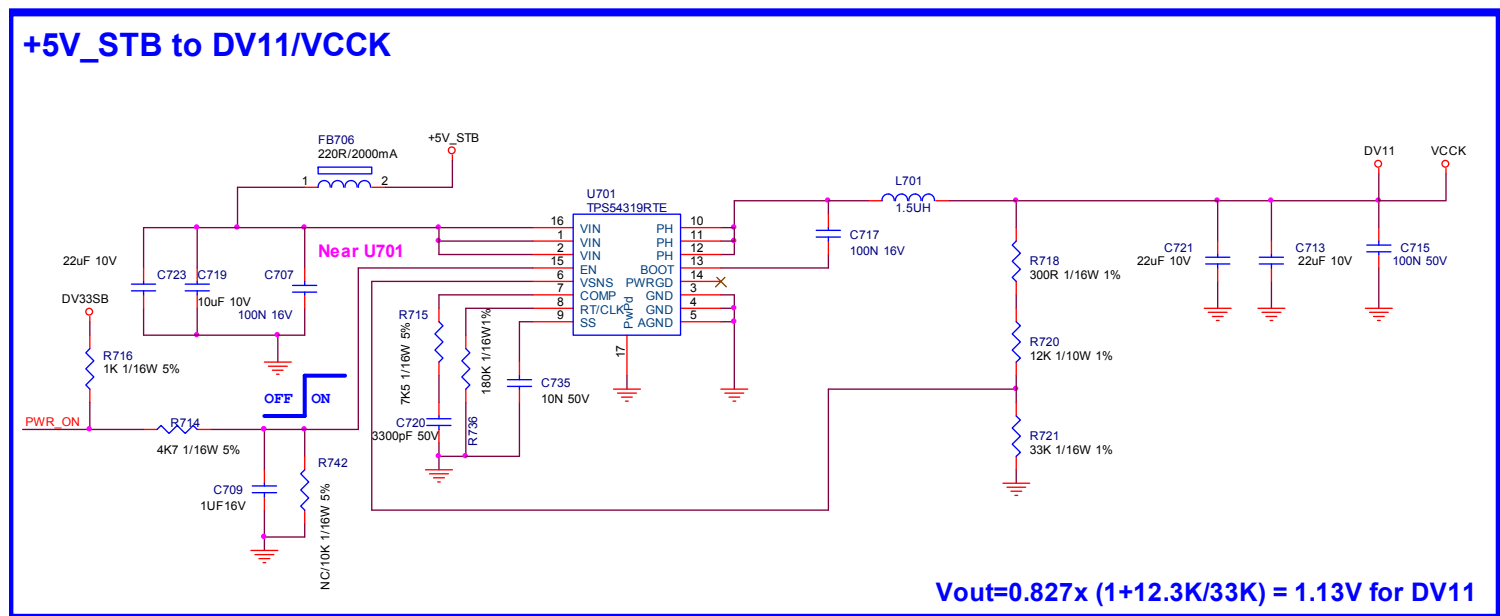
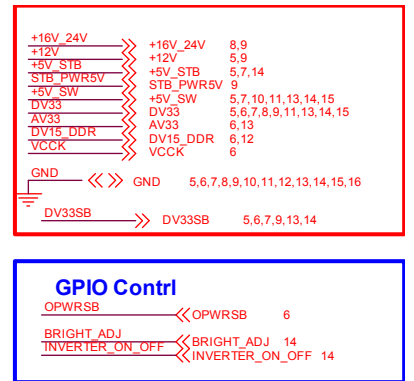
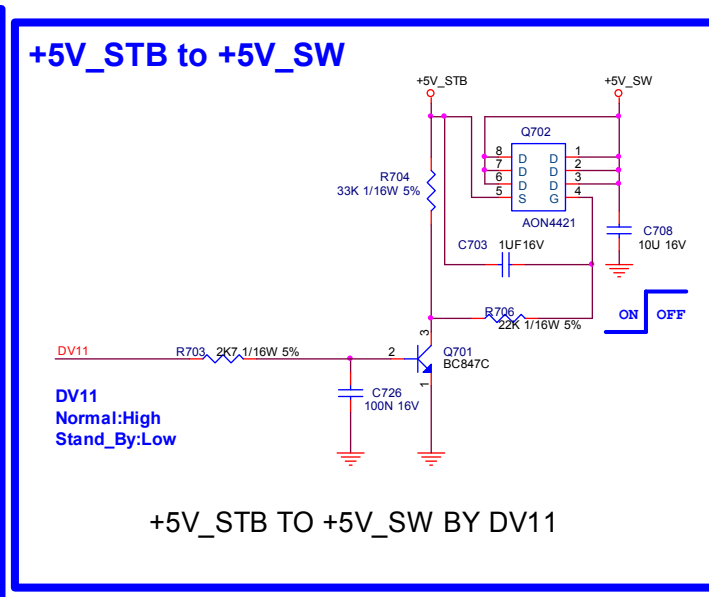
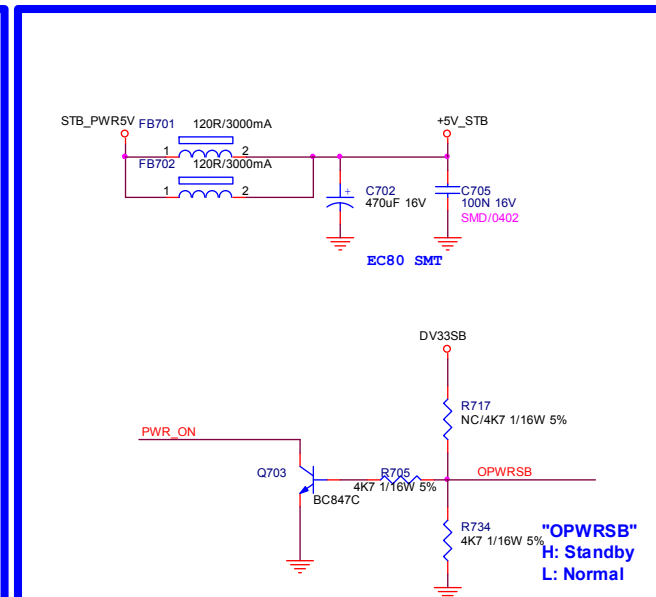
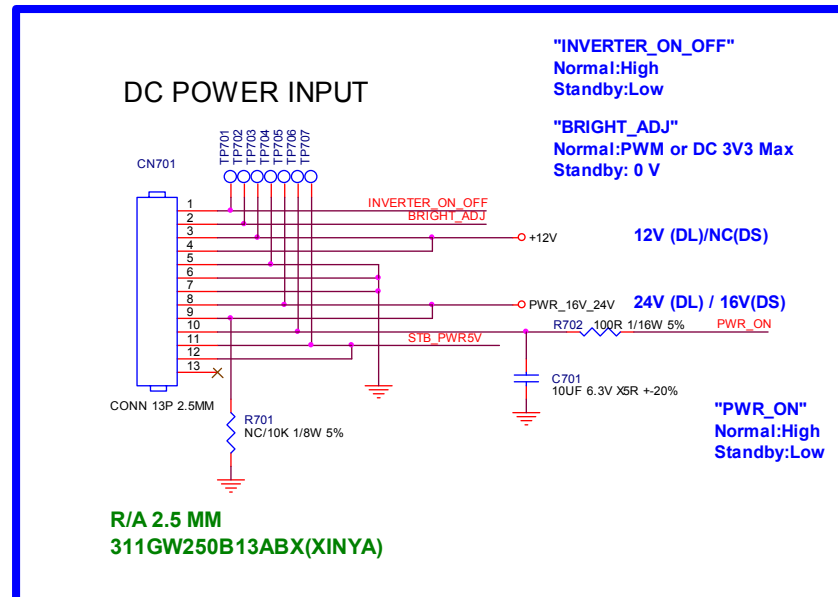




## CHAPTER 8. SCHEMATIC DIAGRAM

## [1] MAIN SCHEMATIC DIAGRAM

## 04 POWER-1



|             |      |         |       |  |
|-------------|------|---------|-------|--|
|             | R724 | Q705    | Q704  |  |
| 32"         | OR   | NC      | NC    |  |
| 19"/22"/32" | NC   | AON4421 | BC847 |  |

## +5V\_STB TO DV33SB

$$V_o = 1.25 \times (1 + 1R/120R) = 1.25V$$

**Panel VCC**

12V

5V\_STB

R754 0R05 1/4W

R752 NC/0R05 1/4W

R755 10K 1/16W 5%

R753 5K1 1/16W 5%

R751 15K 1/16W 5%

R764 10K 1/16W 5%

C753 1UF 16V

C754 4.7UF 10V

C762 10U 16V

Q751 AON4421

Q752 BC847C

PANEL\_VCC

PANEL\_VCC\_ON/OFF

PANEL\_VCC

ON OFF

| PANEL VCC | R754 | R752 |
|-----------|------|------|
| +5V       | NC   | 0R   |
| +12V      | 0R   | NC   |

**PANEL\_VCC\_ON/OFF(GPIO\_11)**  
Normal:High  
Standby:Low

|              |      |      |
|--------------|------|------|
| PANEL<br>VCC | R754 | R752 |
| +5V          | NC   | 0R   |
| +12V         | 0R   | NC   |

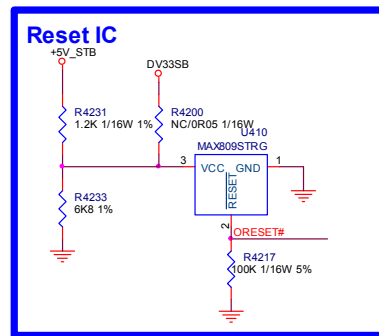
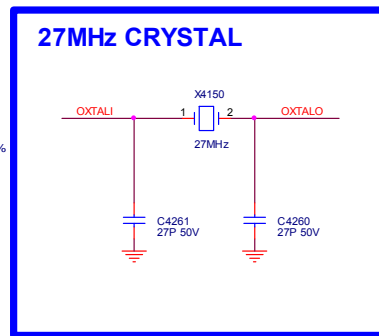
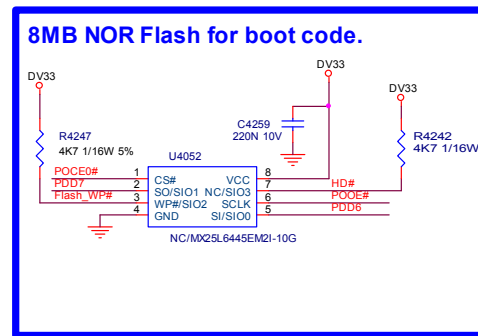
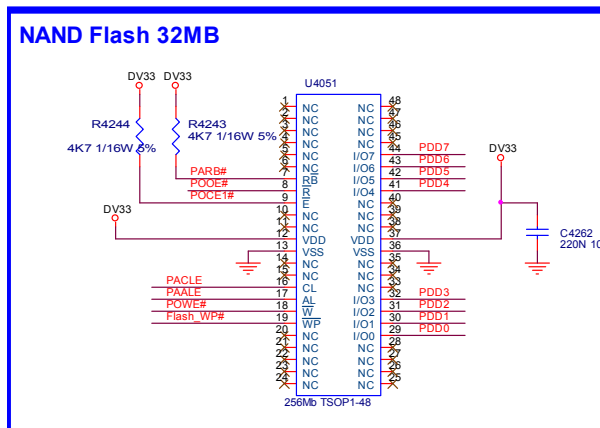
$$1.2 (1 + (\langle 33K + 4K3 \rangle / 12K)) = 4.93V$$

|           |                                |
|-----------|--------------------------------|
| +12V      | 4,9                            |
| +5V_STB   | 4,7,14                         |
| +5V_SW    | 4,7,10,11,13,14,15             |
| +5V_TUNER | 16                             |
| DV33      | 4,6,7,8,9,11,13,14,15          |
| DV33SB    | 4,6,7,9,13,14                  |
| AV12      | 6,15                           |
| PANEL_VCC | 14                             |
| GND       | 4,6,7,8,9,10,11,12,13,14,15,16 |

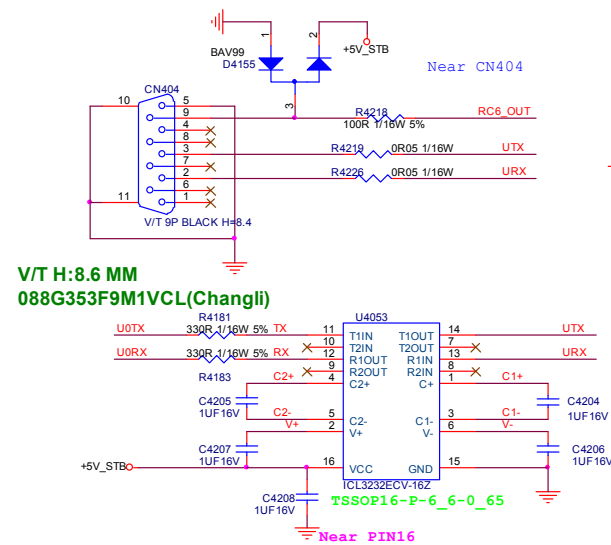
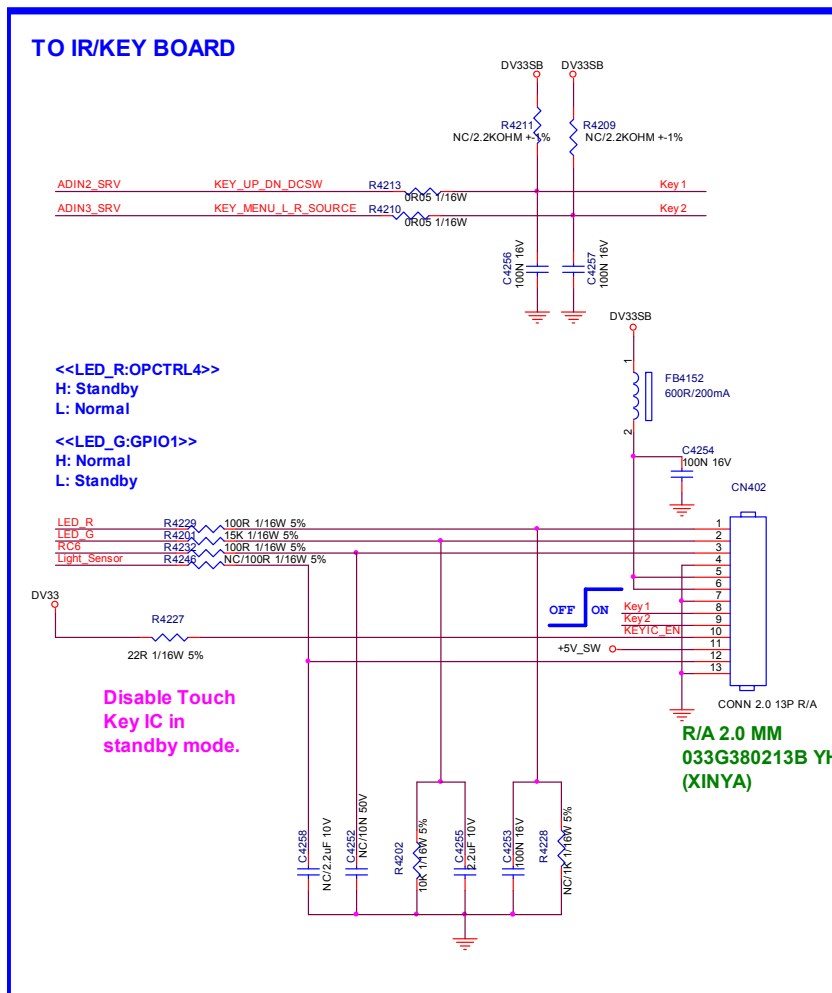
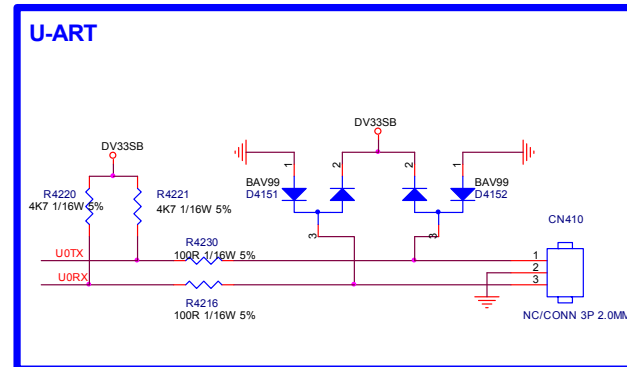
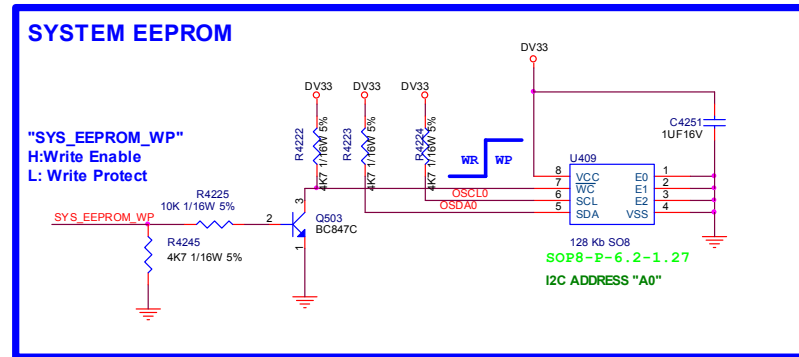
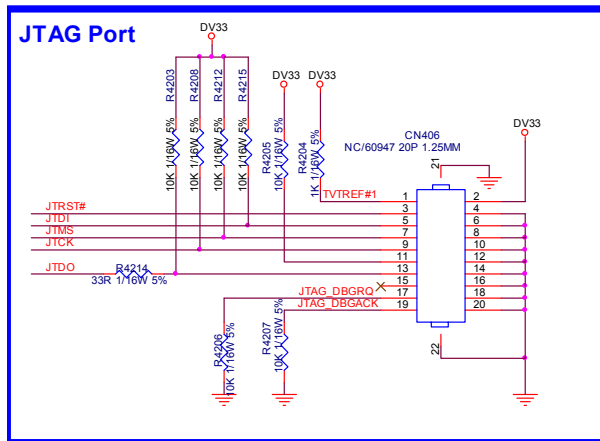
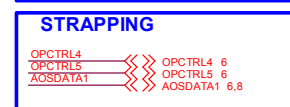
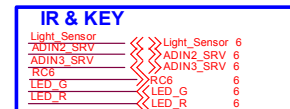
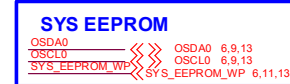
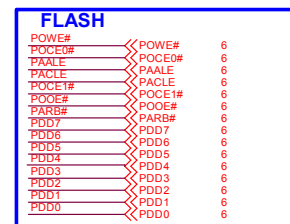
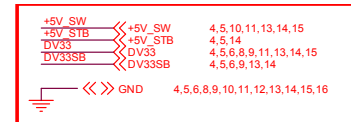
## GPIO Control

PANEL\_VCC\_ON/OFF << PANEL\_VCC\_ON/OFF 6

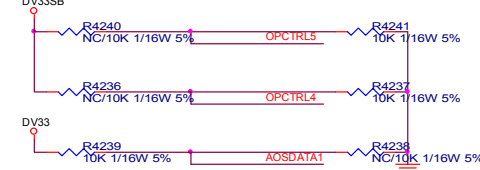
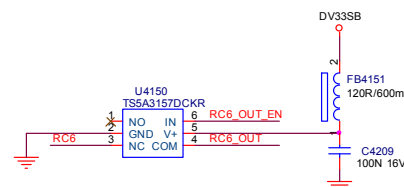




Change to 1.2K for 0.15W purpose  
and DV33SB reserved

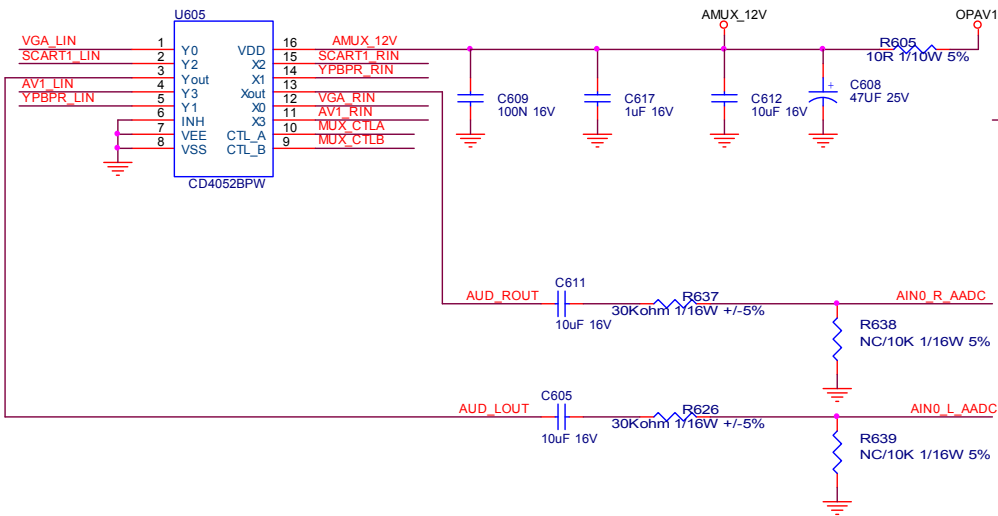


|    |                        |                        |
|----|------------------------|------------------------|
| IN | NC to COM<br>COM to NC | NO to COM<br>COM to NO |
| L  | ON                     | OFF                    |
| H  | OFF                    | ON                     |

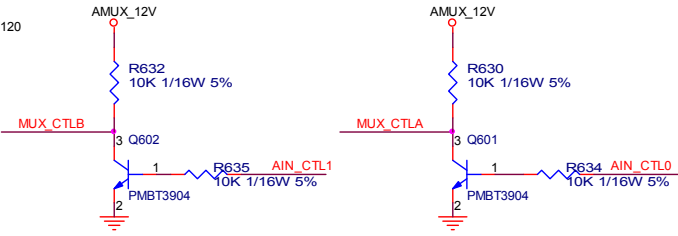


| Strapping                    | OPCTRL5(O) | OPCTRL4(O) | AOSDATA1(O) |
|------------------------------|------------|------------|-------------|
| ICE mode + 27M + serial boot | 0          | 0          | 0           |
| ICE mode + ROM boot + 27M    | 0          | 0          | 1           |

Audio Input MUX



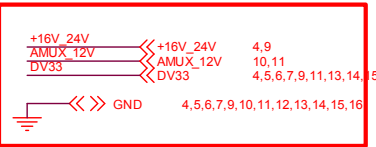
Audio MUX CTRL



Audio Input select table

|       | AIN_CTL1 | AIN_CTL0 |
|-------|----------|----------|
| VGA   | 1        | 1        |
| SCR1  | 1        | 0        |
| YPbPr | 0        | 1        |
| AV1   | 0        | 0        |

| INHIBIT | B | A |        |
|---------|---|---|--------|
| 0       | 0 | 0 | 0x, 0y |
| 0       | 0 | 1 | 1x, 1y |
| 0       | 1 | 0 | 2x, 2y |
| 0       | 1 | 1 | 3x, 3y |
| 1       | X | X | None   |



Audio Input for MUX



Audio Output to MT5365



SCART1 audio output



Line audio output



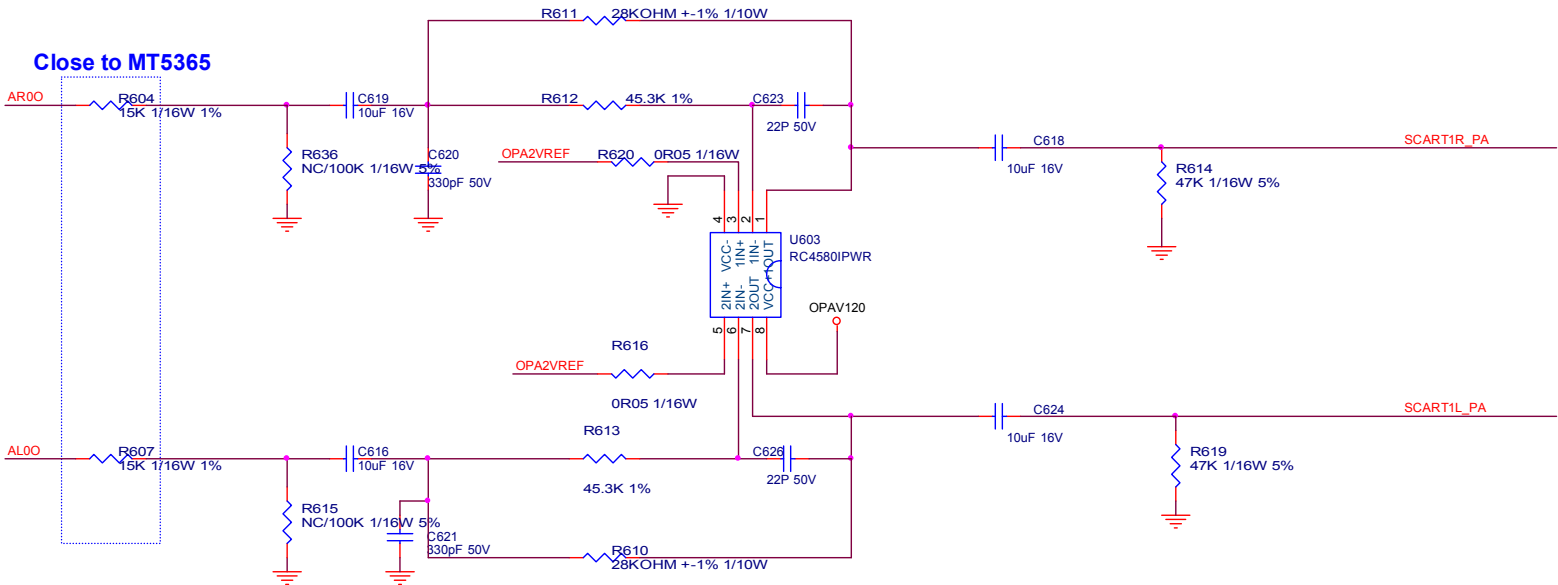
Audio Control



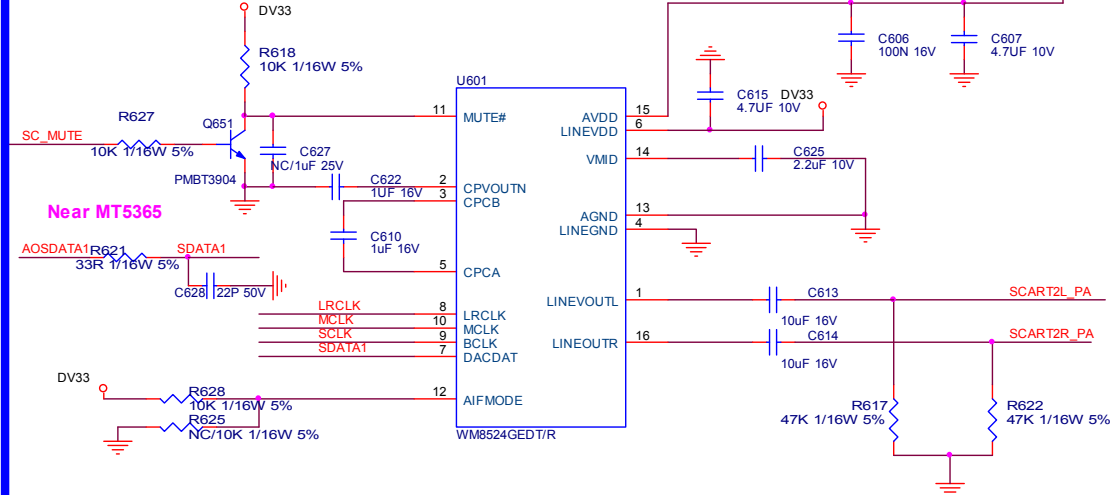
I2S audio input for DAC



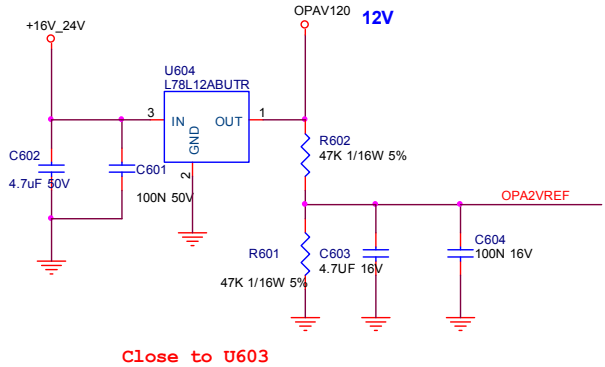
SCT1 Audio Out( PWMDAC to Line out )



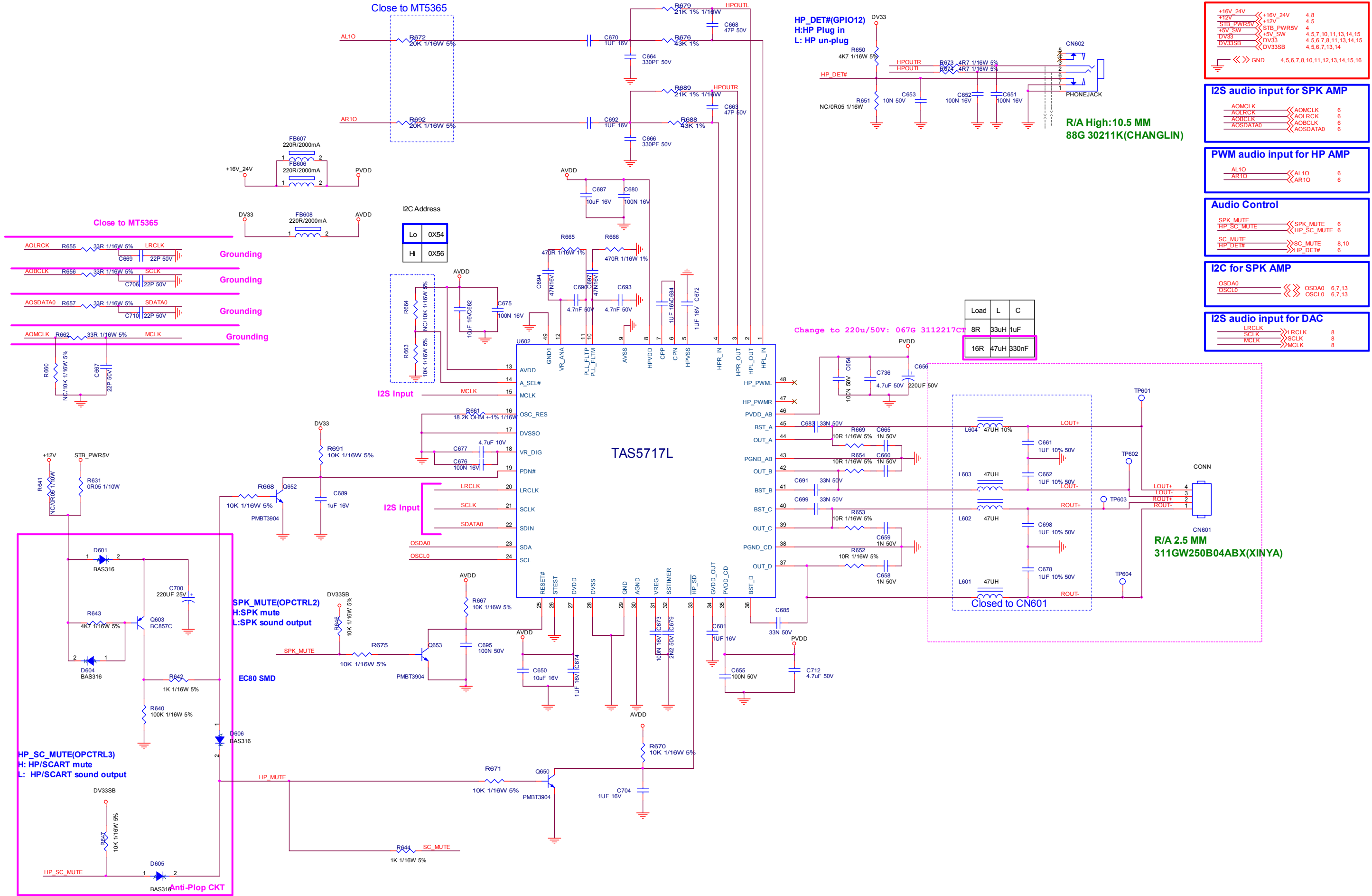
Line Audio Out ( I2S to Line Out )



+12V LDO for audio

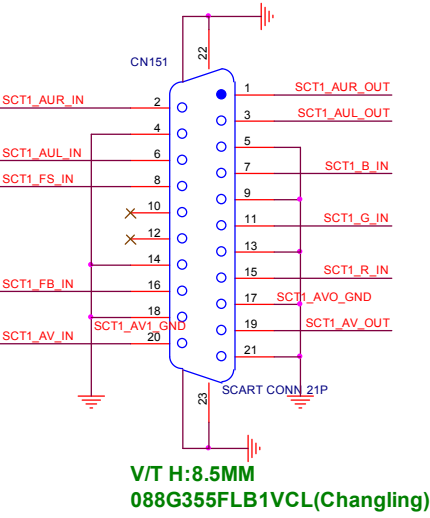




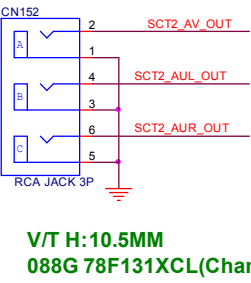


SCART 1(Full SCART) -- CVBS+SV+RGB+TV OUT

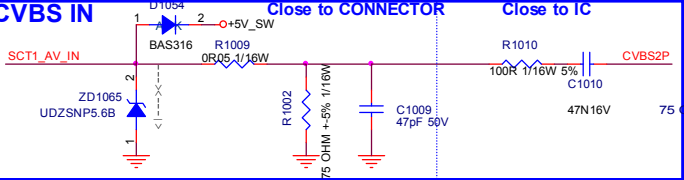
Full SCART(RGB + CVBS + L/R IN\_OUT)



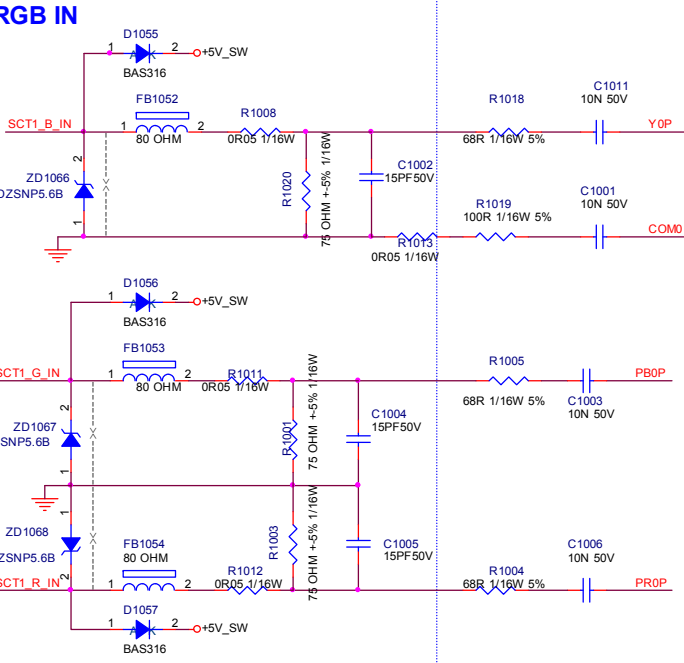
AV Monitor OUT(CVBS +L/R)



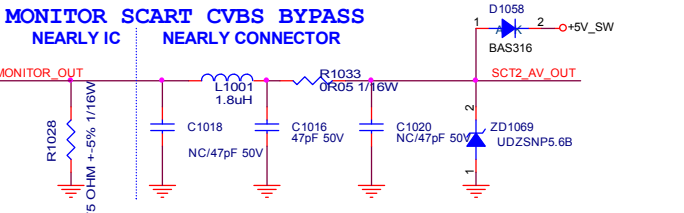
CVBS IN



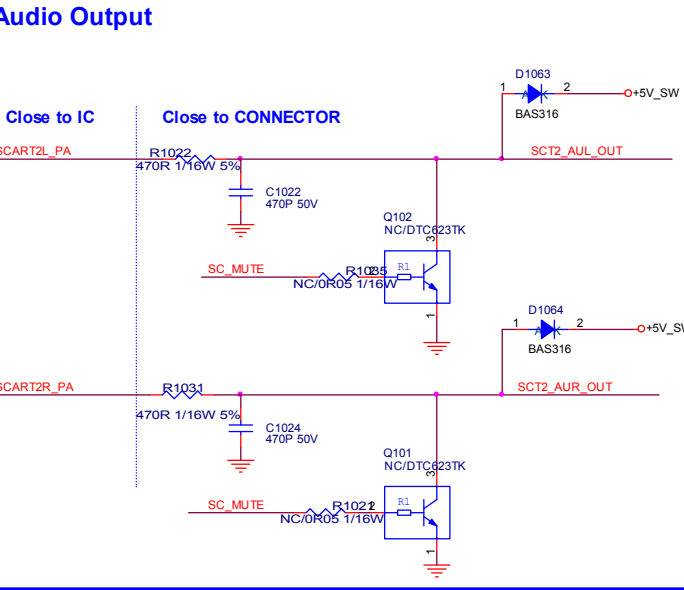
RGB IN



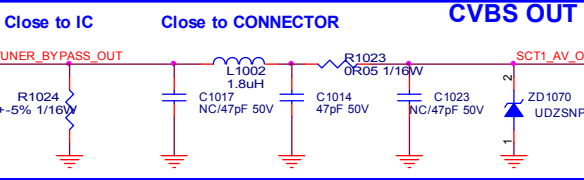
MONITOR SCART CVBS BYPASS NEARLY IC NEARLY CONNECTOR



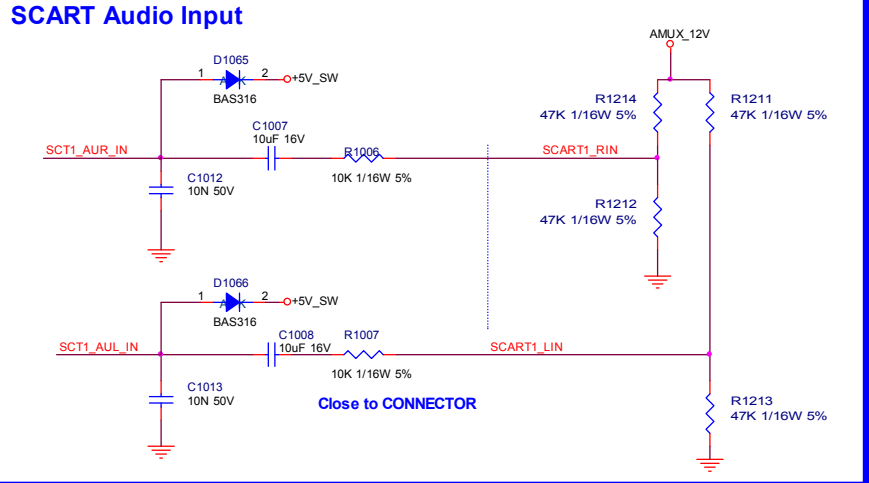
Audio Output



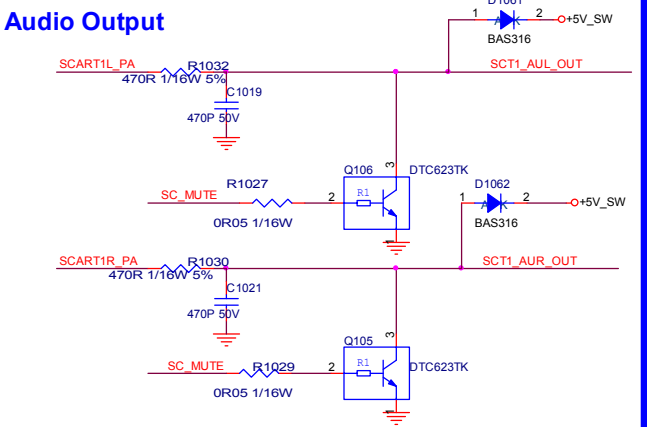
CVBS OUT



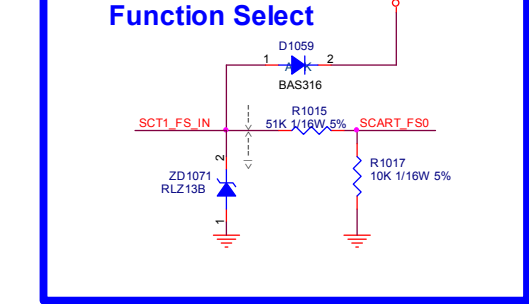
SCART Audio Input



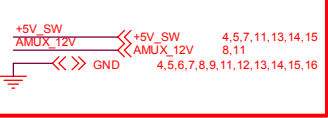
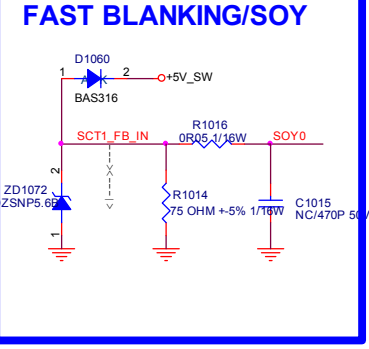
Audio Output



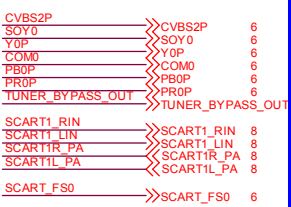
Function Select



FAST BLANKING/SOY



SCART1 in\_out



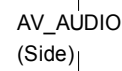
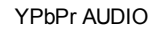
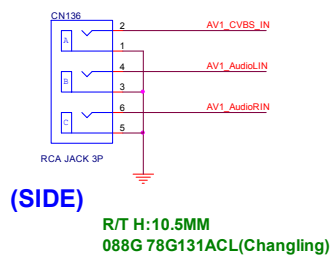
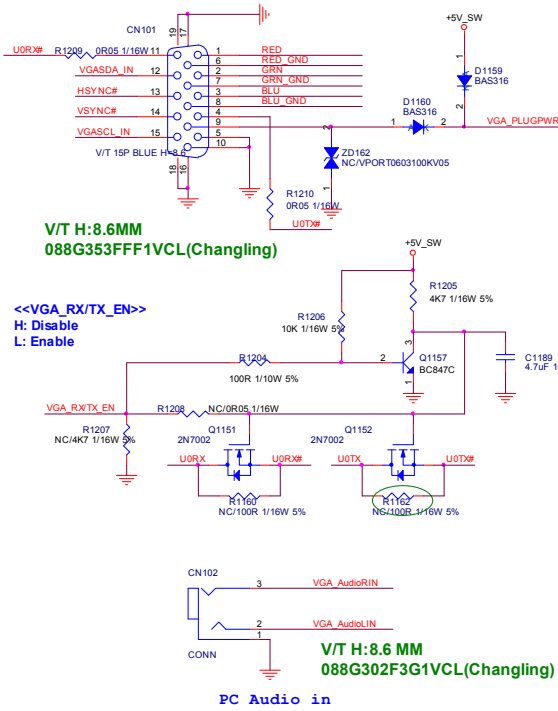
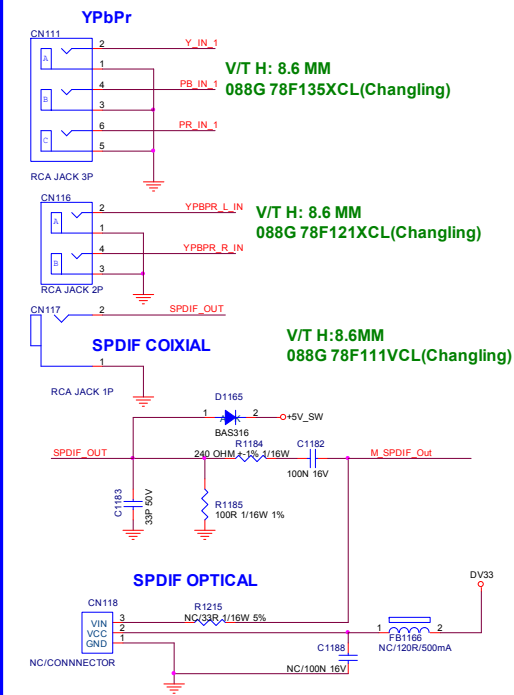
AV monitor output



SCART mute







## Audio Out

### VGA Input

|        |   |        |   |
|--------|---|--------|---|
| VGASCL | ↔ | VGASCL | 6 |
| VGASDA | ↔ | VGASDA | 6 |
| VSYNC  | ↔ | VSYNC  | 6 |
| BP     | ↔ | HSYNC  | 6 |
| SOG    | ↔ | BP     | 6 |
| GP     | ↔ | SOG    | 6 |
| VGACOM | ↔ | GP     | 6 |
| RP     | ↔ | VGACOM | 6 |
|        |   | RP     | 6 |

### Audio Input

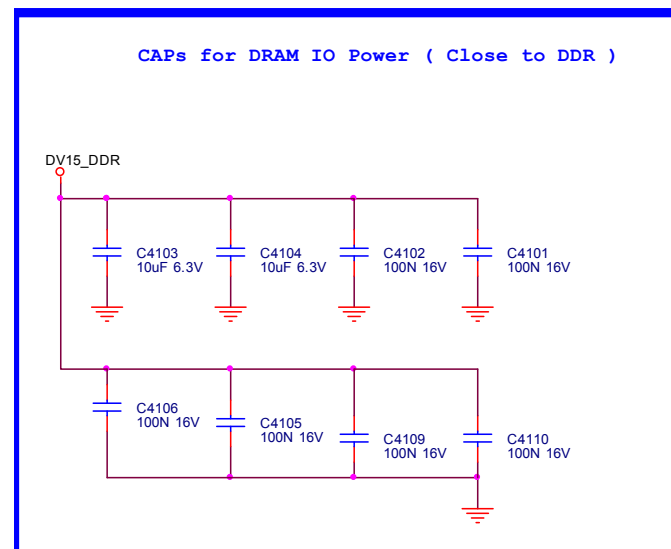
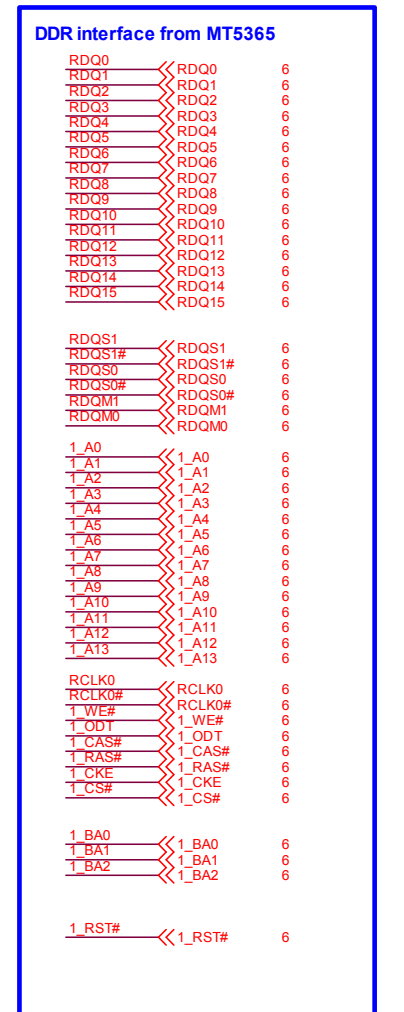
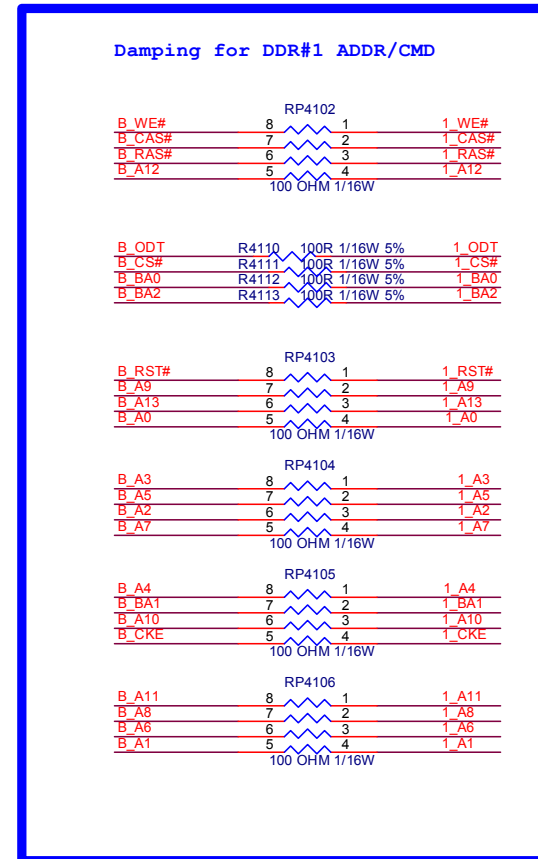
|           |   |
|-----------|---|
| AV1_LIN   | 8 |
| AV1_RIN   | 8 |
| YPBPR_LIN | 8 |
| YPBPR_RIN | 8 |
| VGA_LIN   | 8 |
| VGA_RIN   | 8 |

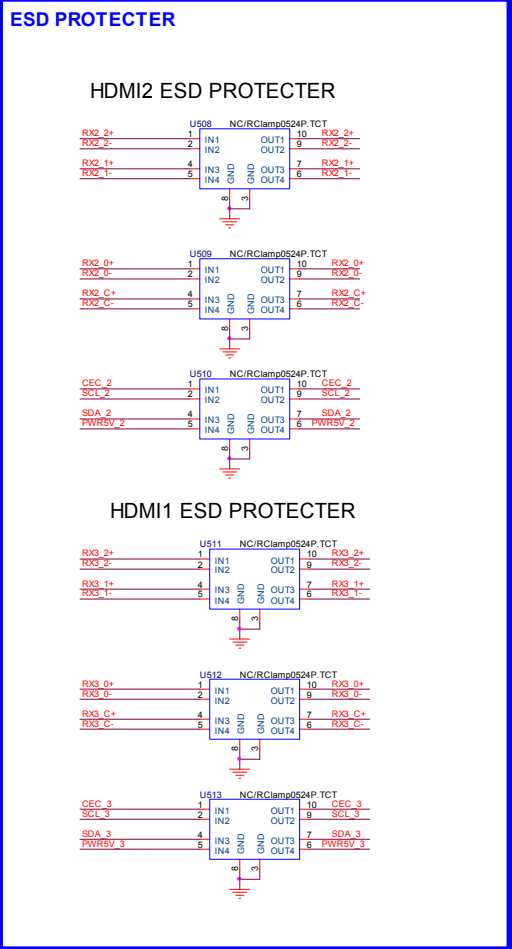
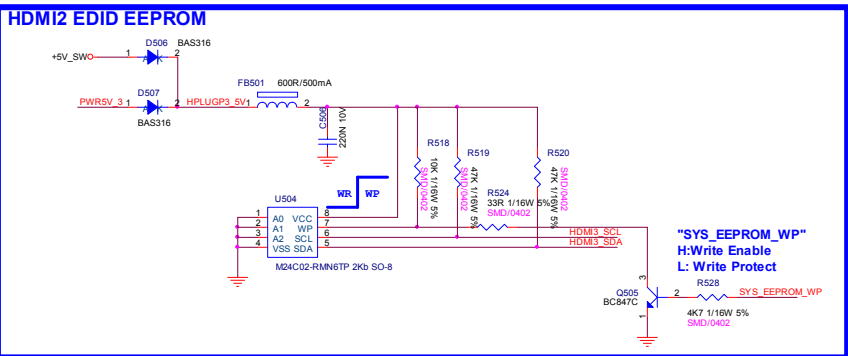
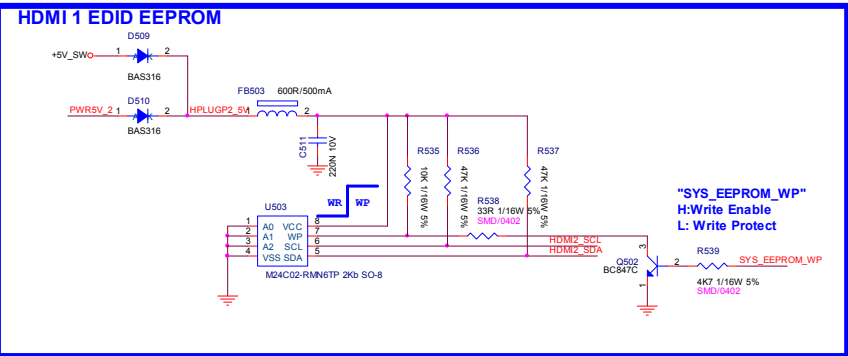
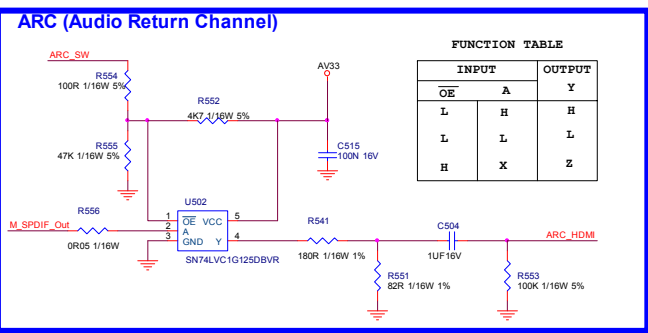
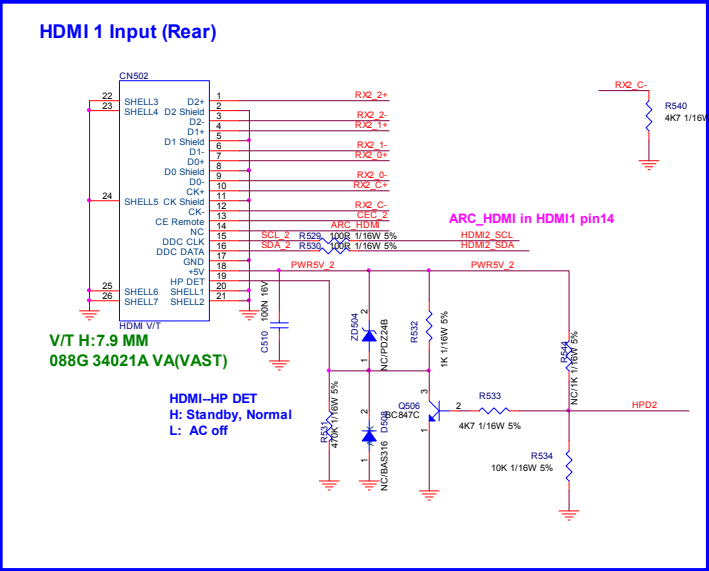
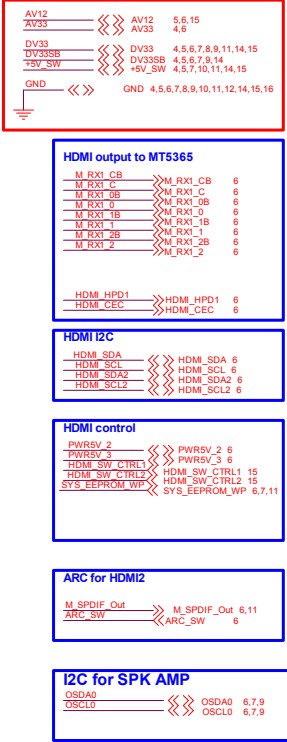
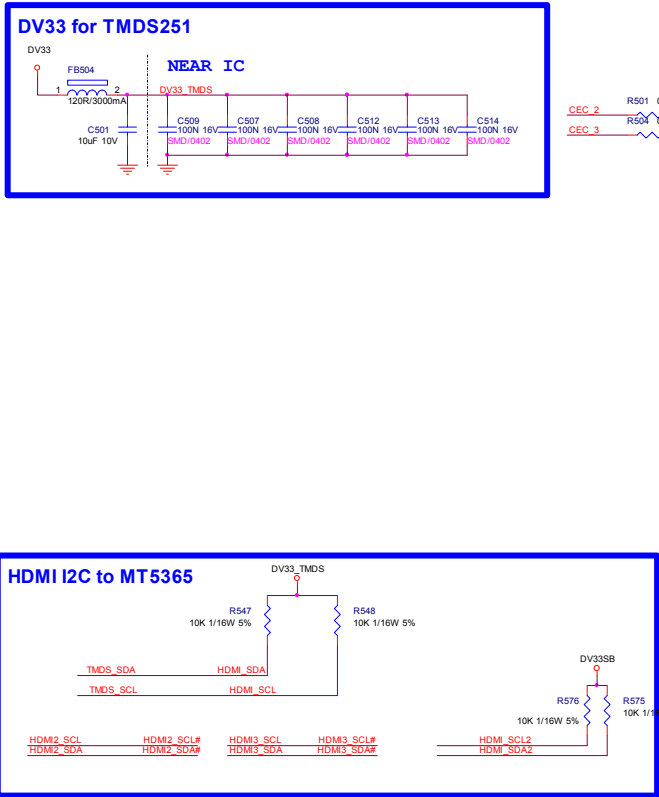
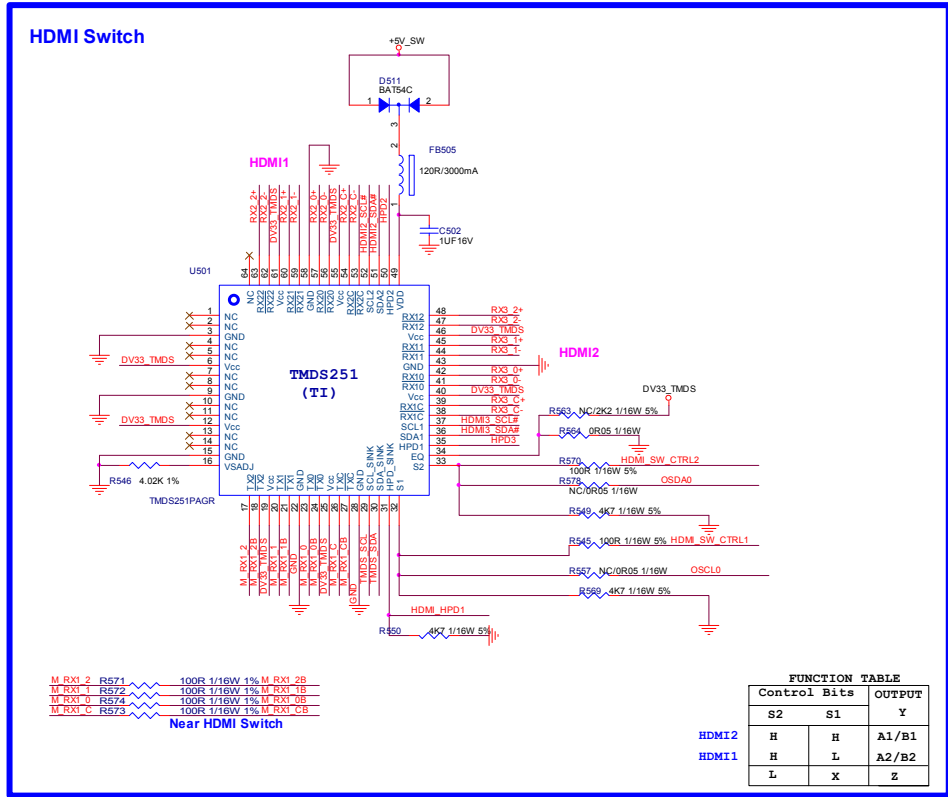
## Video Input

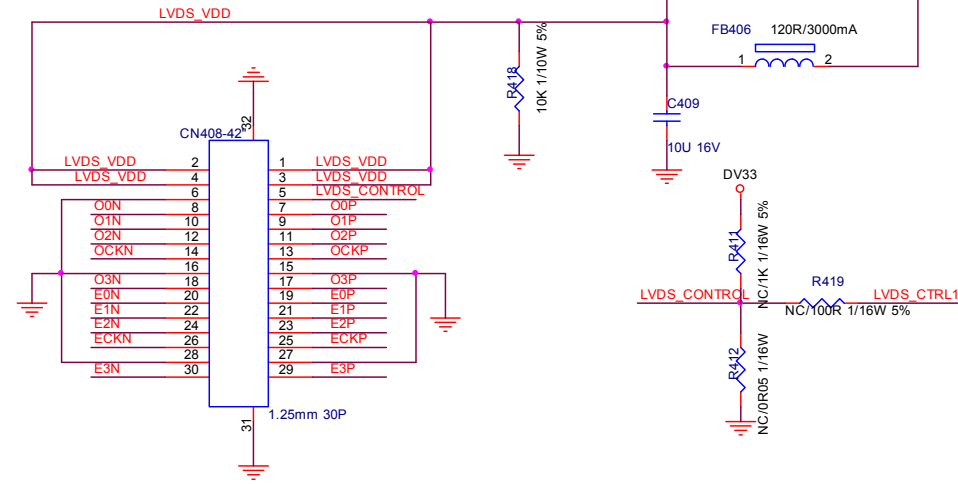
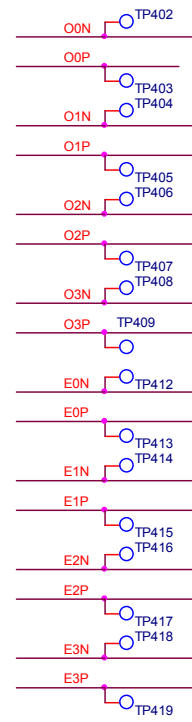
|          |          |   |
|----------|----------|---|
| CVBS1P   | CVBS1P   | 6 |
| CVBS_COM | CVBS_COM | 6 |
| SOY1     | SOY1     | 6 |
| Y1P      | Y1P      | 6 |
| PB1P     | PB1P     | 6 |
| COM1     | COM1     | 6 |
| PR1P     | PR1P     | 6 |

## Others Control Interface

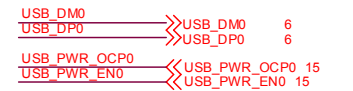
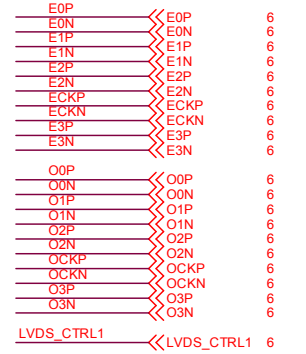
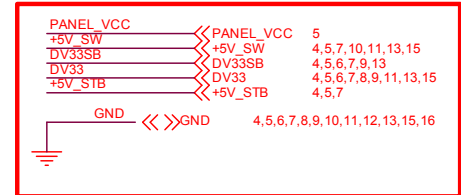
|               |    |               |         |
|---------------|----|---------------|---------|
| U0TX          | << | U0TX          | 6.7     |
| U0RX          | >> | U0RX          | 6.7     |
| VGA_RXTX_EN   | << | VGA_RXTX_EN   | 6       |
| RC6           | >> | RC6           | 6.7     |
| SYS_EEPROM_WP | << | SYS_EEPROM_WP | 6.7, 13 |







FFC for TPT315B5-LA77  
033G801930F CH JS(JS)



**BL\_DIM(PWM for Bright\_Adj):**  
Max: 0V  
Min: +3V3

Circuit components and connections:

- Resistors:**
  - R401: 4K7 1/16W 5%
  - R402: NC/4K7 1/16W 5%
  - R403: 1K 1/16W 5%
  - R405: 100R 1/10W 5%
  - R406: 4K7 1/16W 5%
- Transistor:** Q402 PMBT3904
- Capacitor:** C403 NC/10uF 10V
- Power Sources:** DV33, +5V\_SW
- Traces:** BL\_DIMMING, BRIGHT\_ADJ

|             |      |      |      |
|-------------|------|------|------|
| BL CONTROL  | R405 | R403 | C403 |
| PWM CONTROL | 100R | 1K   | N/C  |
| DC CONTROL  | 5K6  | 1K   | 10U  |

BackLight\_SW:  
BackLight on: Low  
BackLight off: High

BL\_ON/OFF

DV33

DV33SB

+5V\_SW

DV33

R410  
4K7 1/16W 5%

R409  
NC/2KOHM 1/10W

R408  
1K 1/16W 5%

R407  
4K7 1/16W 5%

R404  
4K7 1/16W 5%

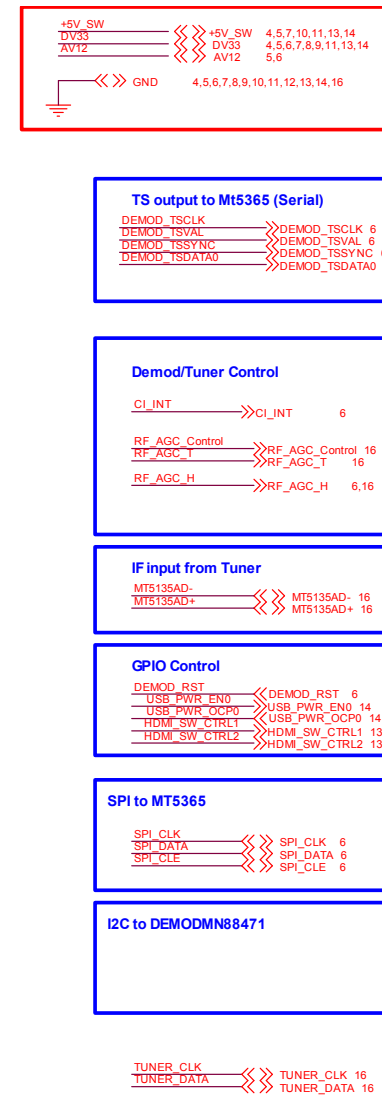
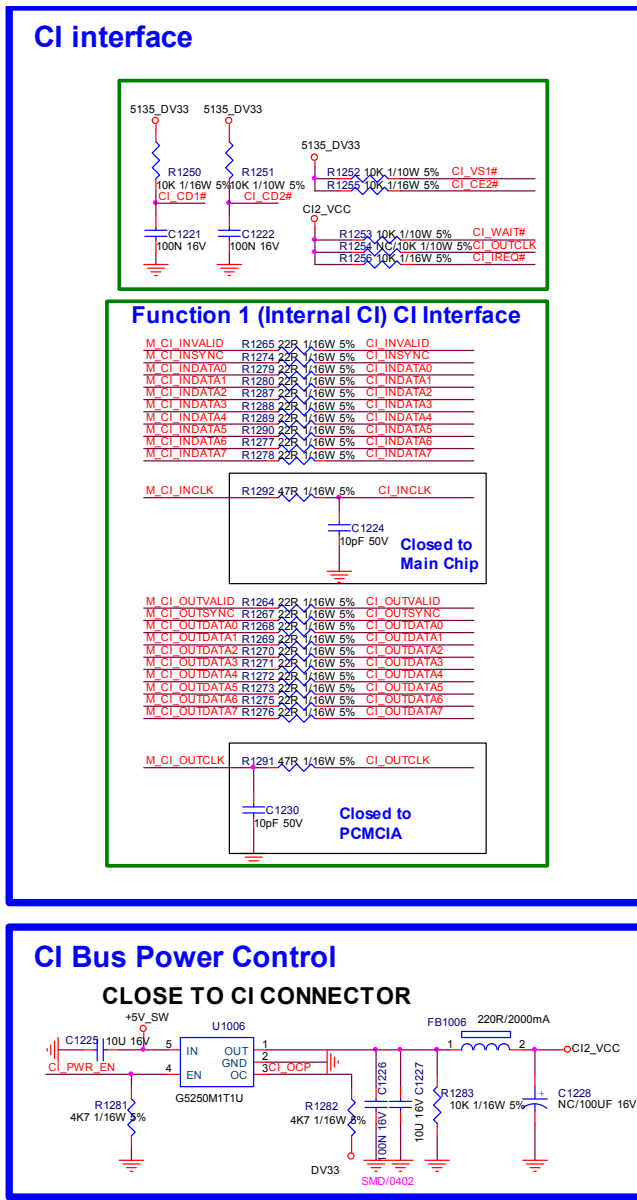
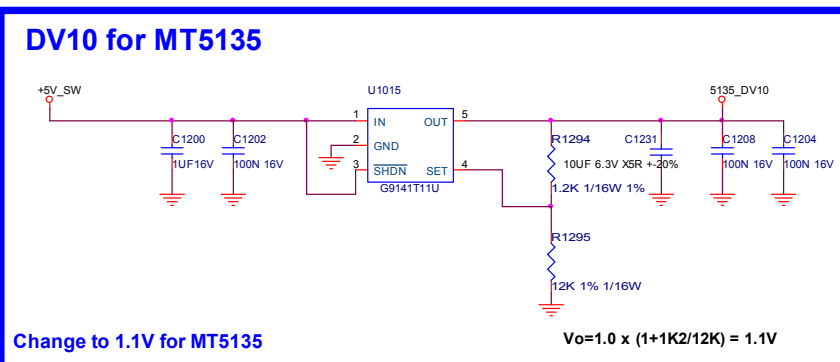
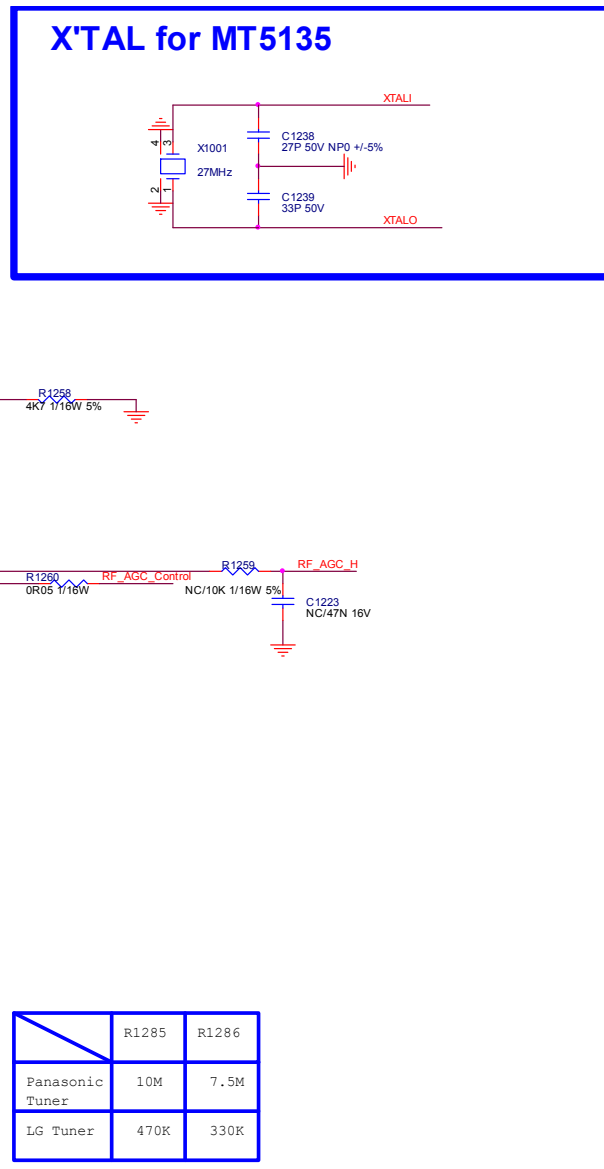
Q401  
PMBT3904

C401  
NC/22uF 10V

INVERTER\_ON\_OFF

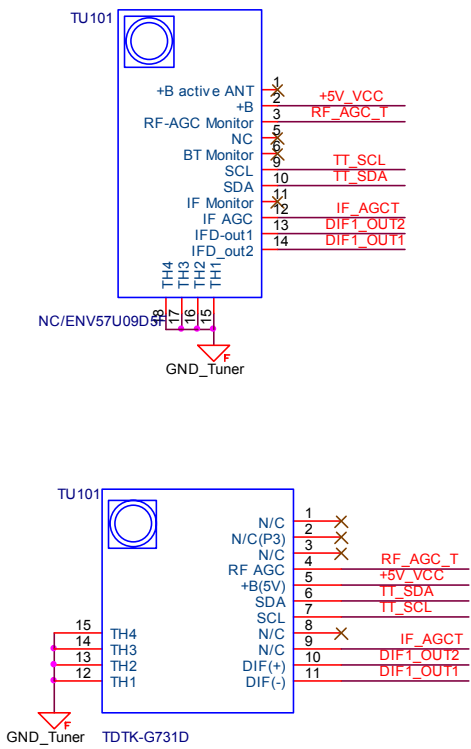
| INVERTER<br>ON/OFF | R407 | R408 |
|--------------------|------|------|
| 3V3                | N/C  | 1K   |
| 5V                 | 2K   | N/C  |

[illegible]

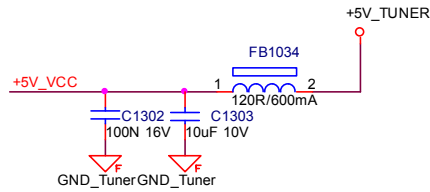


16 DVB-T+C TUNER

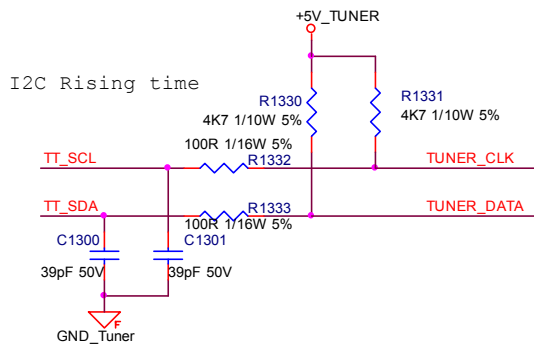
TUNER



+5V for Tuner



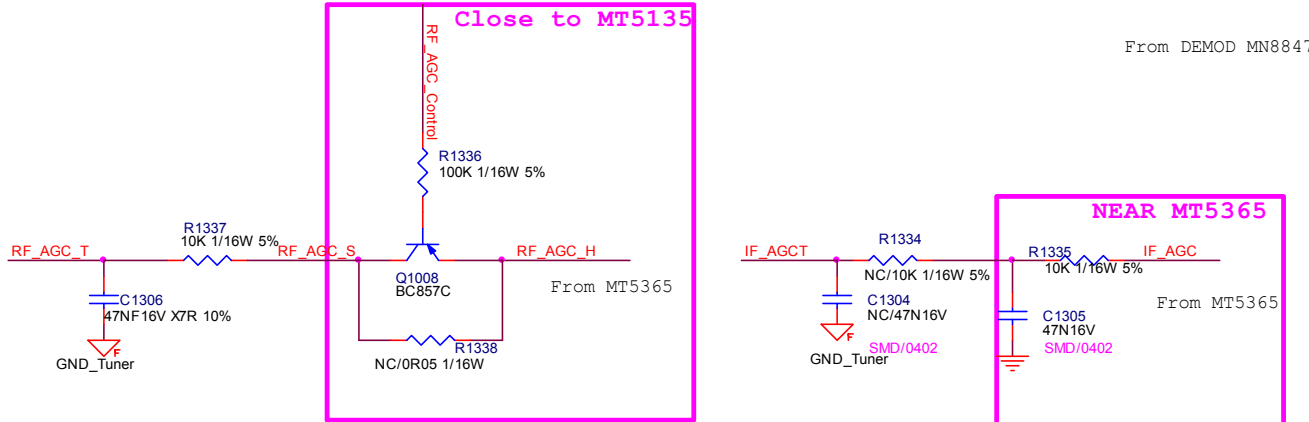
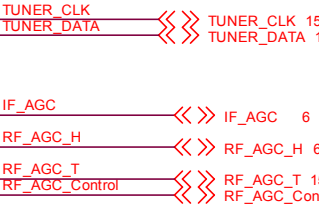
I2C for Tuner



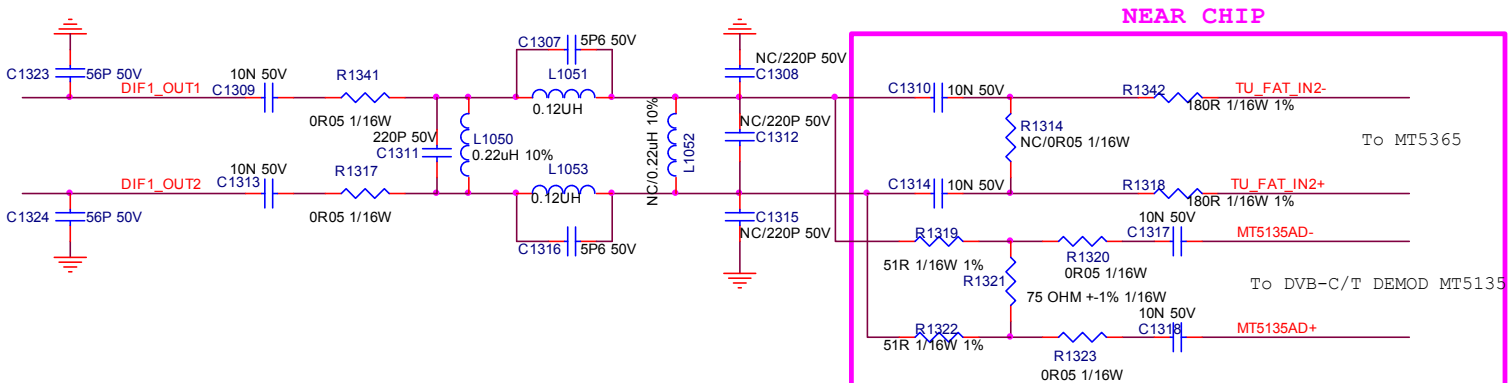
Tuner IF output



Tuner Control

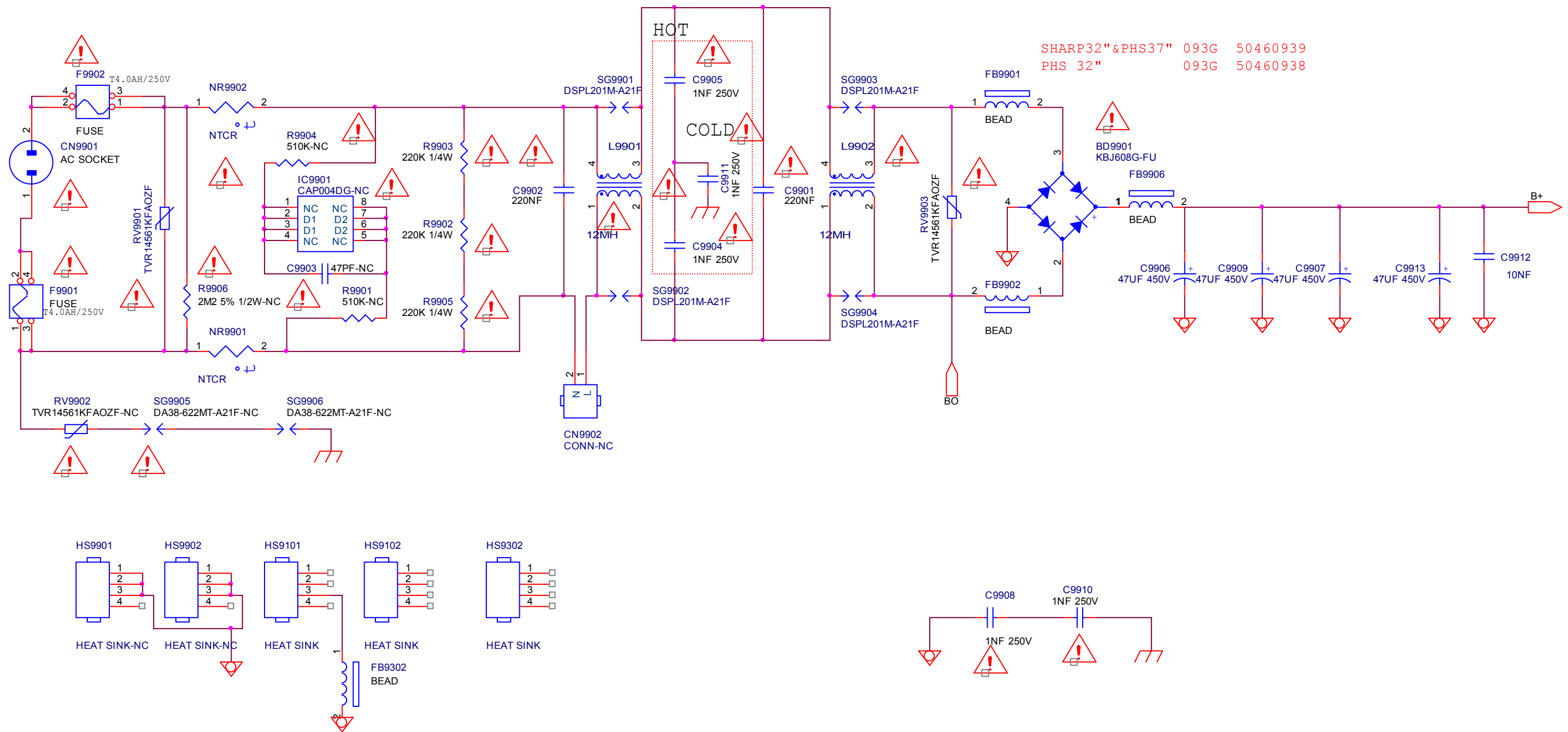


BPF

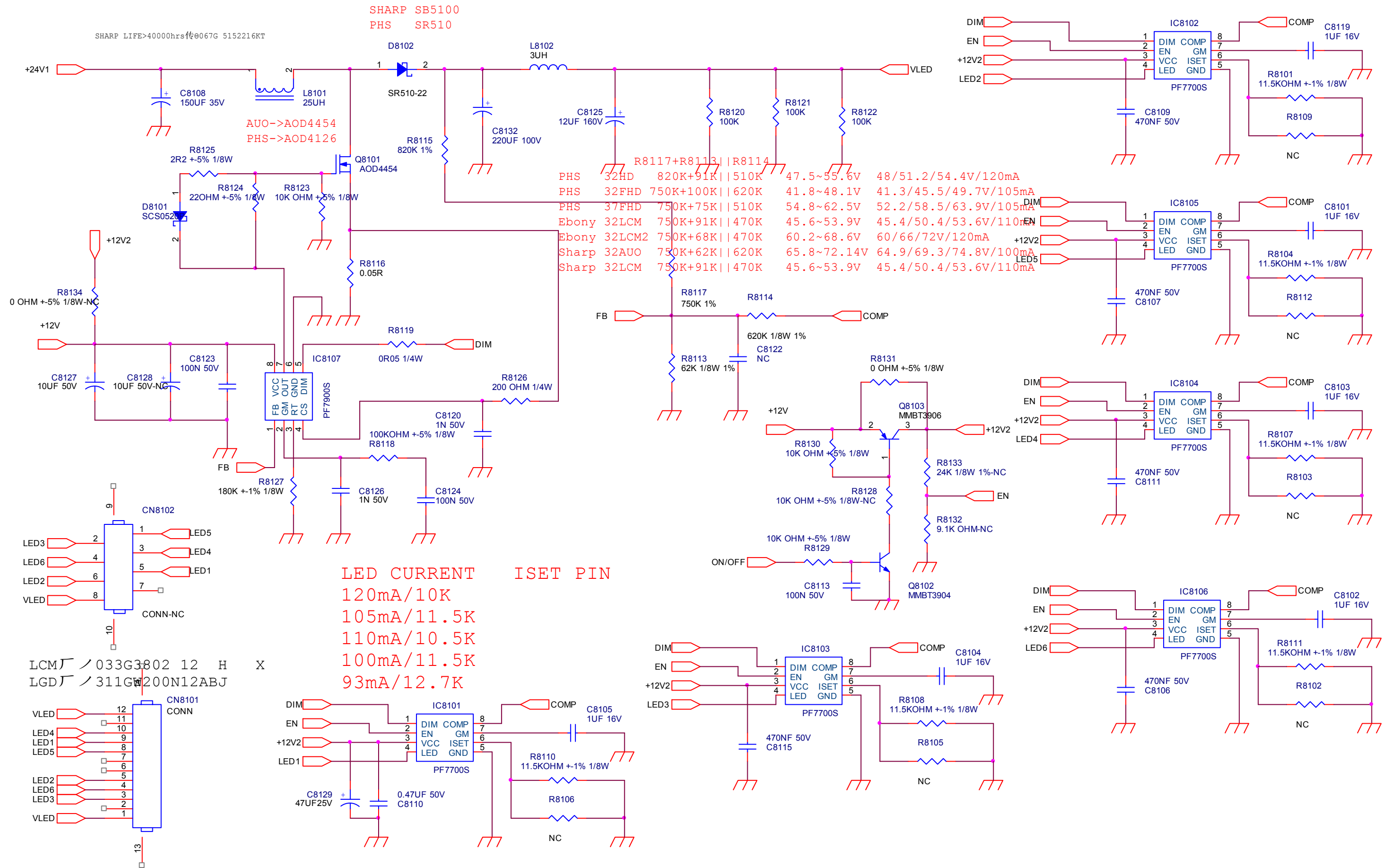


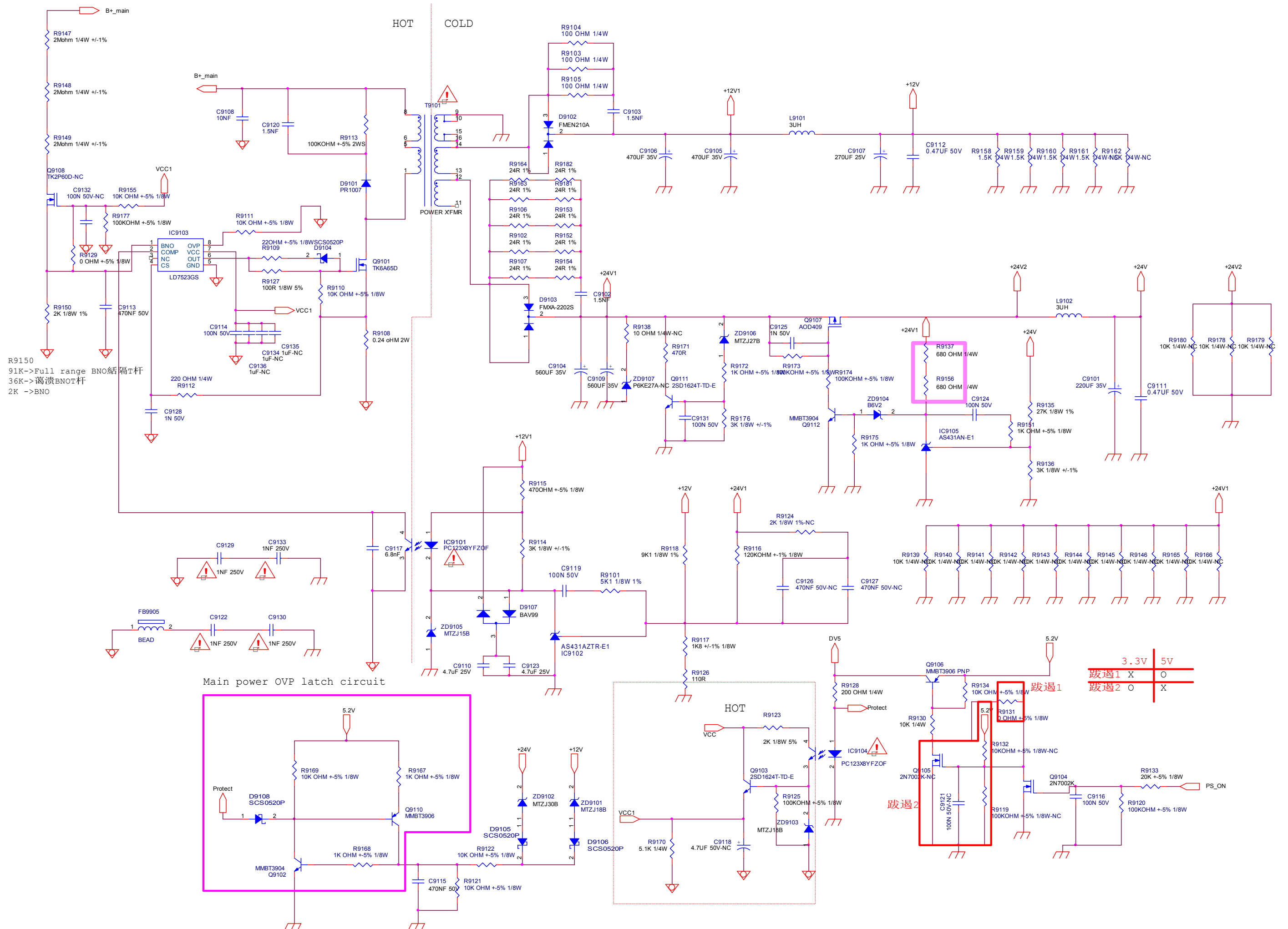
|                 | R1318 | R1342 | R1321 | C1306 | Q1008  | R1338 |
|-----------------|-------|-------|-------|-------|--------|-------|
| Panasonic Tuner | 51R   | 51R   | 150R  | 470N  | NC     | 0R    |
| LG Tuner        | 180R  | 180R  | 75R   | 47N   | BC857C | NC    |

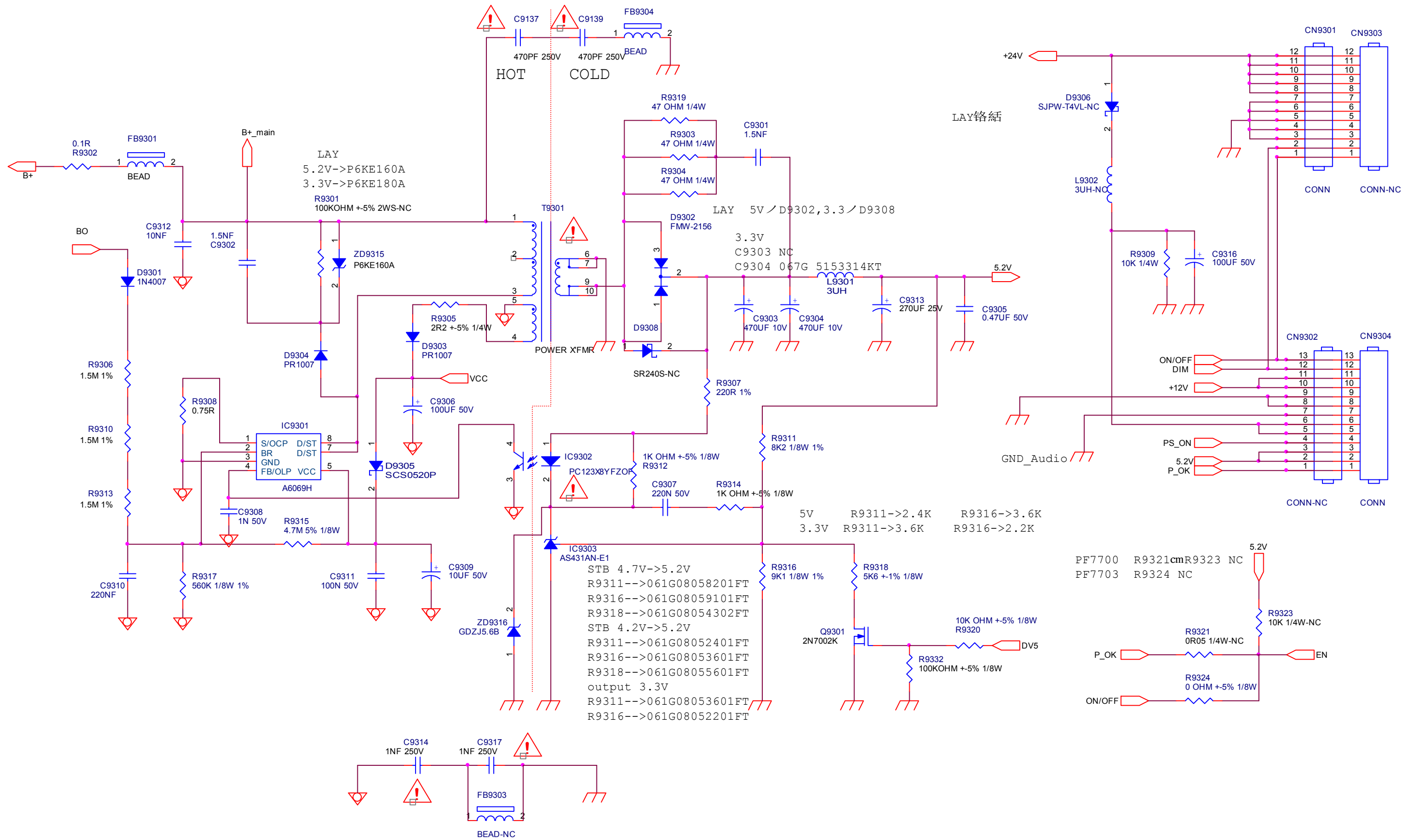




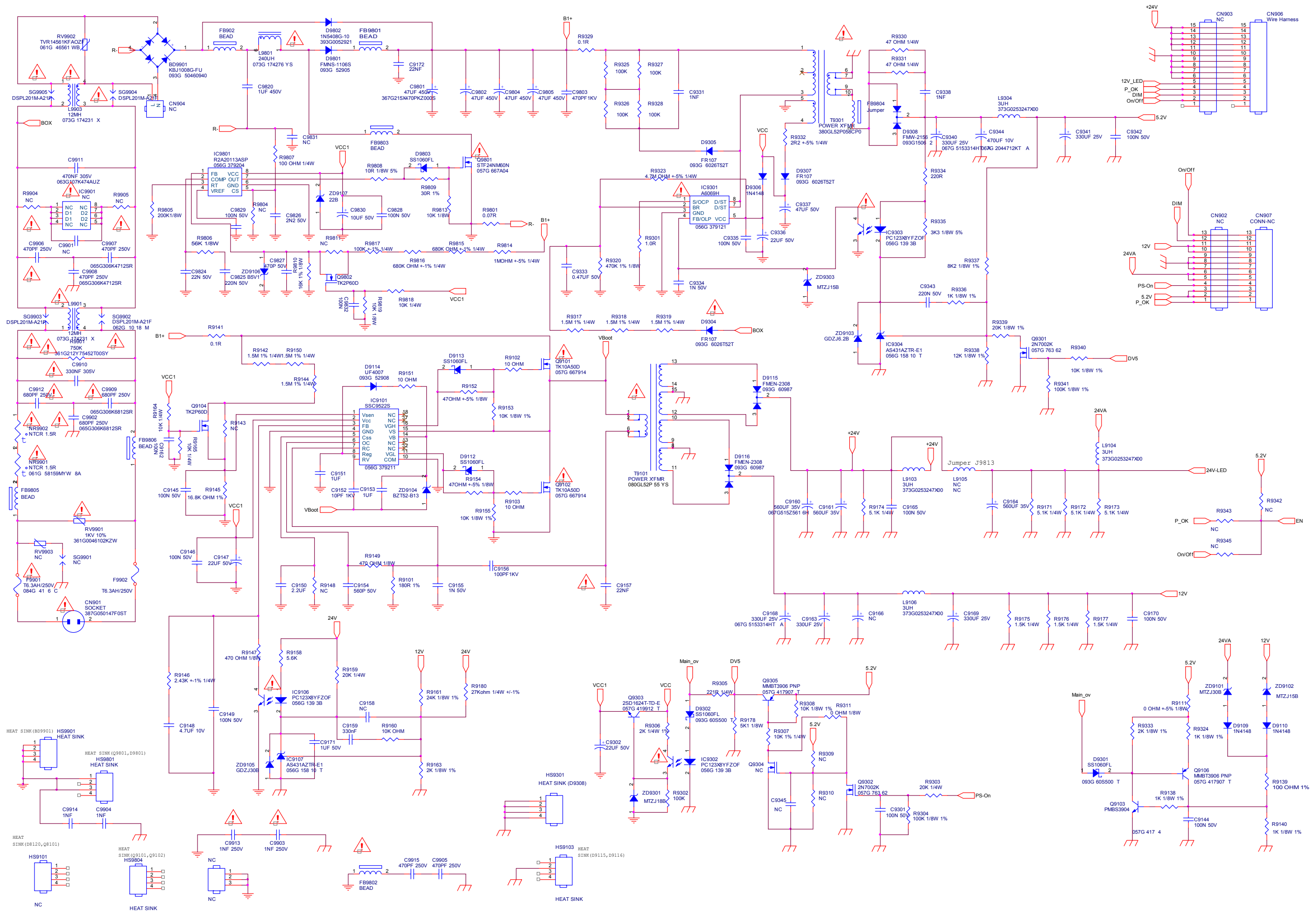




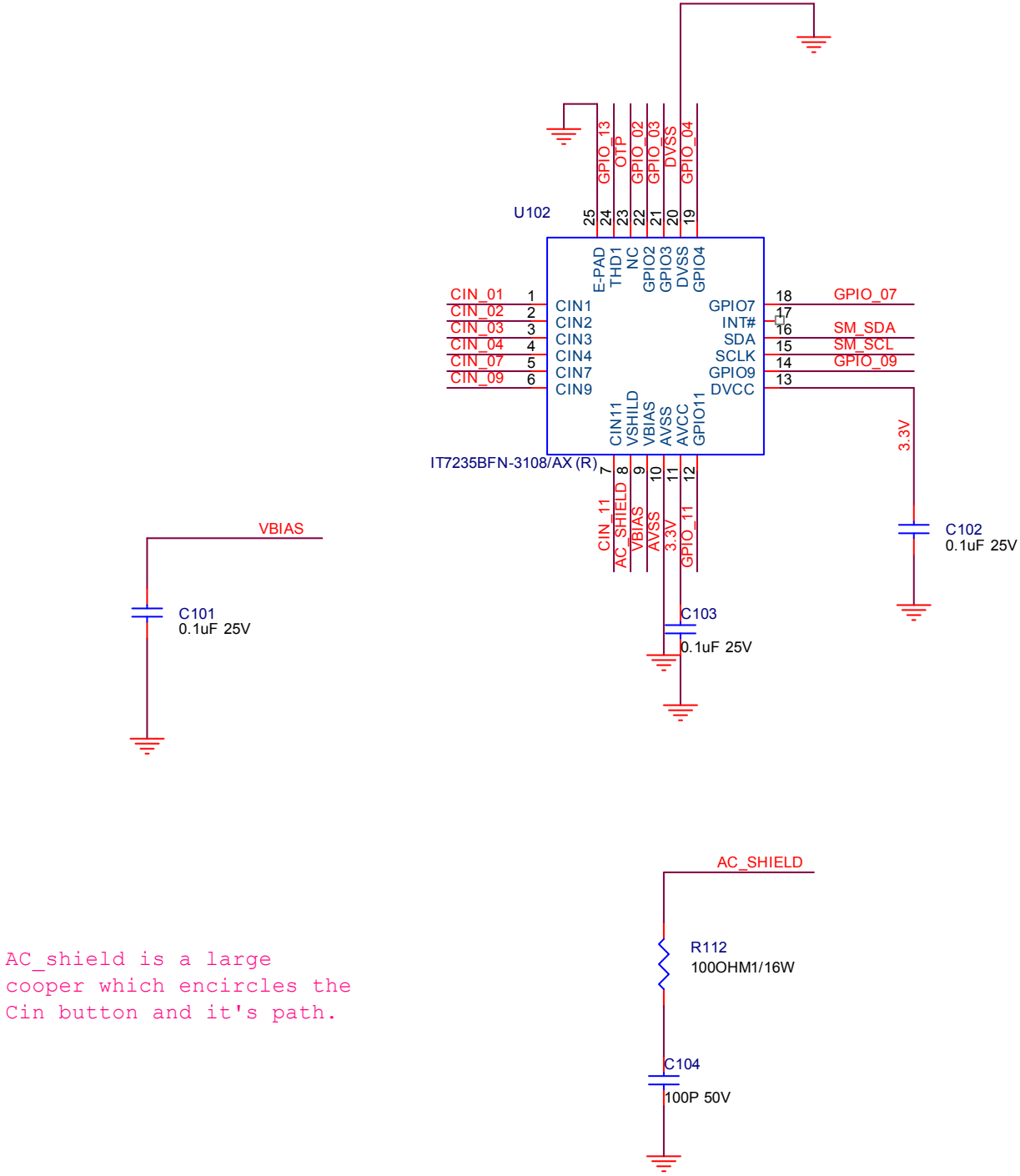




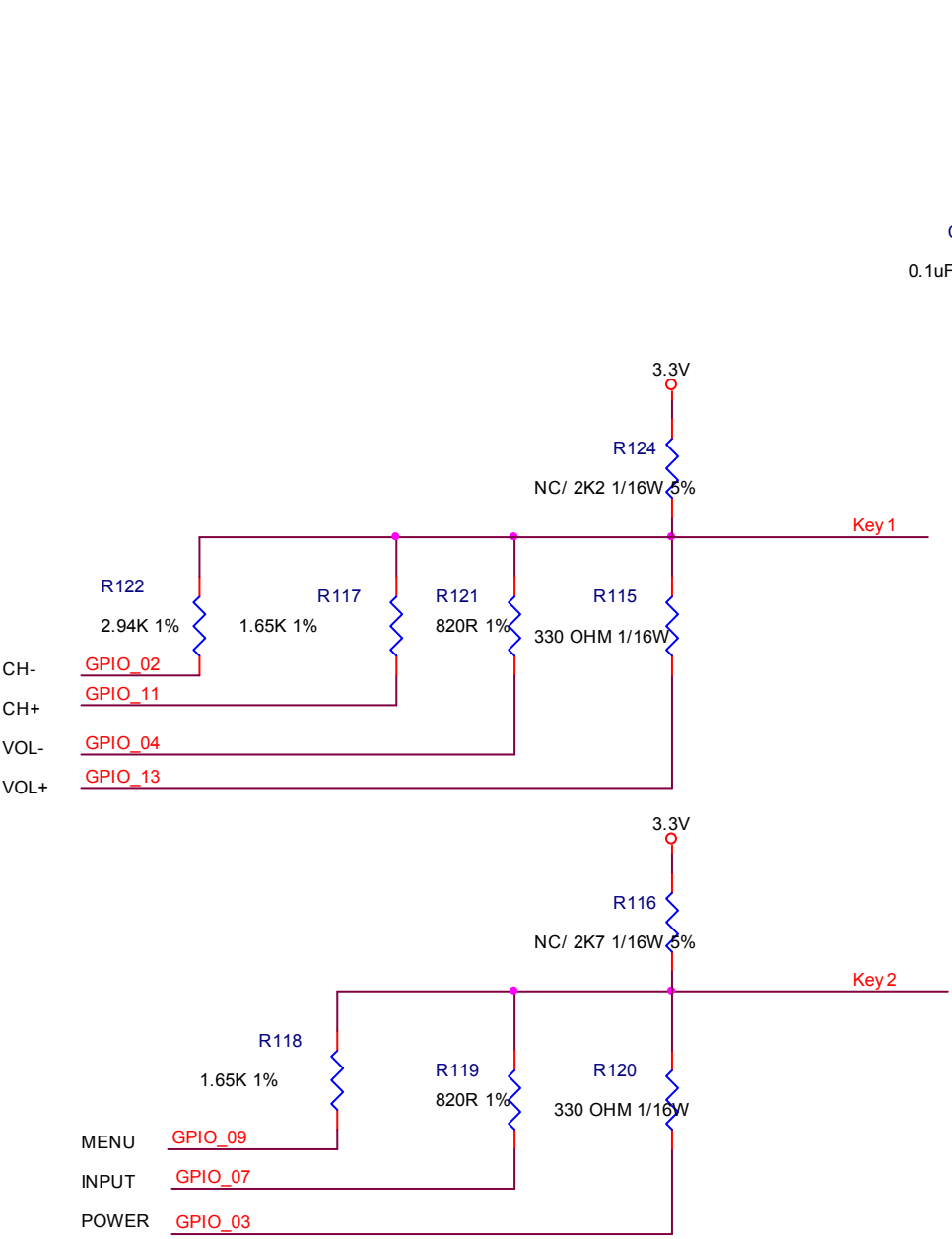
LC-32LE40E-I  
**LC-42LE40E**



[3] KEY SCHEMATIC DIAGRAM



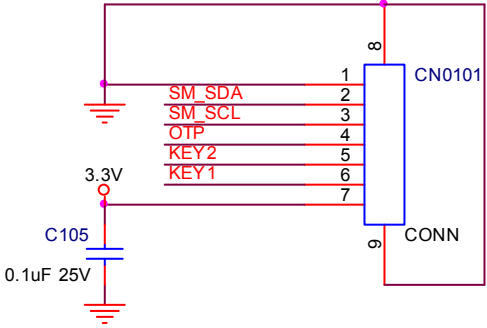
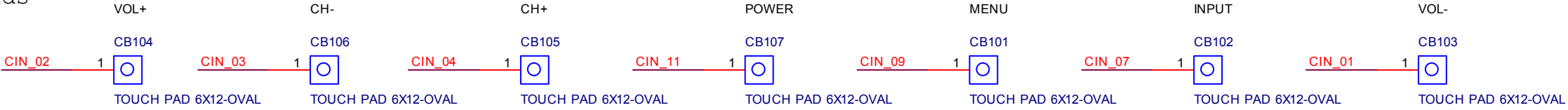
AC\_shield is a large cooper which encircles the Cin button and it's path.

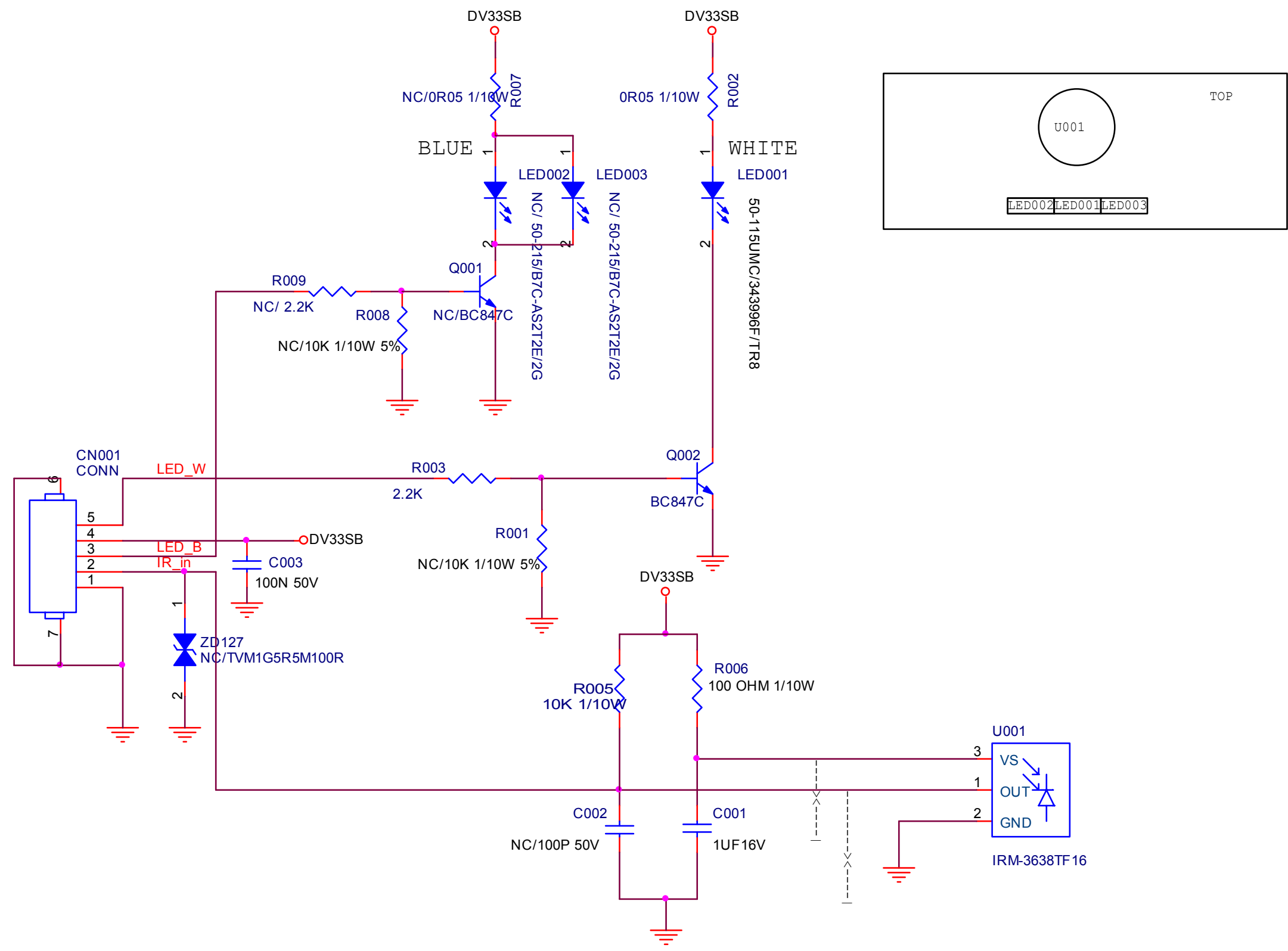


GPIO2,3,4,7,9,11, 13 output data format is like mechanical switch output form, i.e., No touch: Open, Touch: GND.

|             | CH - | CH + | VOL- | VOL + | Menu | Input | Power |
|-------------|------|------|------|-------|------|-------|-------|
| CIN (+)     | 3    | 4    | 1    | 2     | 9    | 7     | 11    |
| CIN (-)     |      |      |      |       |      |       |       |
| LED output  |      |      |      |       |      |       |       |
| GPIO output | 2    | 11   | 4    | 13    | 9    | 7     | 3     |
| Voltage     | 1.87 | 1.4  | 0.93 | 0.47  | 1.4  | 0.93  | 0.47  |

Cap Pads





## CHAPTER 9. PARTS GUIDE

## [1] SPARE PARTS LIST

| MODEL: LC-32LE40E |                    |               |                                        |
|-------------------|--------------------|---------------|----------------------------------------|
| Item              | Parts Code         | Sharp Code    | Description                            |
|                   | 705TQBSKJ11001     | 9JR7050001012 | SKD KITS                               |
|                   | 044T3121510515     | 9JR4400000431 | SPONGE                                 |
| SP01              | 078G0110574 YA     | 9JR7800000157 | SPEAKER 16 OHM 11W 132X27MM - NO       |
|                   | 0Q1G 930 8 47 XL   | 9JR0100000816 | SCREW 3X8                              |
| ECN601            | 395G801304XM25     | 9JR3950000007 | HARNESS 4P(2506)-B&R+B&W 650+330MM     |
| ECN402            | 395G801413XM34     | 9JR3950000008 | HARNESS 13P(2008)-5P+7P 280+550MM      |
|                   | P33T0178PBC 1X0100 | 9JR3300000002 | LENS _DOUBLE_430                       |
|                   | P33T0297 1 1C0100  | 9JR3300000108 | LENS_IR_42_LED_SHP                     |
|                   | P34T0935ADTA1T0230 | 9JR3400000129 | BEZEL                                  |
|                   | P34T0936ADT04T0230 | 9JR3400000130 | REAR COVER                             |
|                   | Q16G000103002700TS | 9JR1600000037 | SPONGE                                 |
|                   | Q36G 600 18111 TS  | 9JR3600000007 | NON-WOVEN FABRIC CLOTH 0.25 0.3        |
|                   | Q36G 600 35 3 TS   | 9JR3600000011 | NON-WOVEN FABRIC CLOTH 0.3 0.3         |
|                   | Q36G 600 35 3 TS   | 9JR3600000011 | NON-WOVEN FABRIC CLOTH 0.3 0.3         |
|                   | Q36G060003001000TS | 9JR3600000008 | NON-WOVEN FABRIC                       |
|                   | Q36G060003600900TS | 9JR3600000013 | NON-WOVEN FABRIC                       |
|                   | Q36G060003600900TS | 9JR3600000013 | NON-WOVEN FABRIC                       |
|                   | Q40G000284315A     | 9JR4000000660 | FEATURE-POP LABEL                      |
|                   | Z52G120102600000GB | 9JR5200000075 | TAPE_DOUBLE                            |
|                   | KEPFBAB4           | 9JR9900000544 | KEY BOARD                              |
| CN0101            | 033G8032 7F S HR   | 9JR3300000107 | CONNECTOR 7P 1.25                      |
| U102              | 056G 669 60        | 9JR5600000314 | TOUCH KEY IT7235BFN-3108/AX (R) QFN-24 |
| R112              | 061G0402101 JF     | 9JR6100002269 | RST CHIPR 100 OHM +-5% 1/16W FENGHUA   |
| R117              | 061G04021651FF     | 9JR6100002273 | RST 0402 1.65K 1% 1/16W FENGHUA        |
| R118              | 061G04021651FF     | 9JR6100002273 | RST 0402 1.65K 1% 1/16W FENGHUA        |
| R124              | 061G04022201FI     | 9JR6100002278 | RST CHIPR 2.2KOHM +-1% 1/16W TA-I      |
| R116              | 061G04022201FI     | 9JR6100002278 | RST CHIPR 2.2KOHM +-1% 1/16W TA-I      |
| R122              | 061G04022941FT     | 9JR6100002280 | RST 0402 2.94K 1% 1/16W                |
| R120              | 061G04023300FF     | 9JR6100002282 | RST CHIPR 330 OHM +-1% 1/16W FENGHUA   |
| R115              | 061G04023300FF     | 9JR6100002282 | RST CHIPR 330 OHM +-1% 1/16W FENGHUA   |
| R121              | 061G04028200FI     | 9JR6100002296 | RST 0402 820R 1% 1/16W                 |
| R119              | 061G04028200FI     | 9JR6100002296 | RST 0402 820R 1% 1/16W                 |
| C104              | 065G040210131J 3   | 9JR6500001427 | CAP CHIP 0402 100P 50V NPO +/-5%       |
| C105              | 065G040210425K F   | 9JR6500001429 | CHIP 0402 0.1UF 25V X5R                |
| C103              | 065G040210425K F   | 9JR6500001429 | CHIP 0402 0.1UF 25V X5R                |
| C102              | 065G040210425K F   | 9JR6500001429 | CHIP 0402 0.1UF 25V X5R                |
| C101              | 065G040210425K F   | 9JR6500001429 | CHIP 0402 0.1UF 25V X5R                |
| E715              | 715G5439K01000004I | 9JR7150000018 | KEY BOARD PCB                          |
|                   | IRPFCA1            | 9JR9900000543 | IR BOARD                               |
| U001              | 056T 627904        | 9JR5600000318 | IR RECEIVER IRM-3638TF16               |
| CN001             | 033G8032 5F X      | 9JR3300000036 | WAFER 5P 1.25MM S1315-05RVB-S03-K      |
| Q002              | 057G 477900 T      | 9JR5700000052 | TRA SIG SM BC847C (KEC0) R             |
| R002              | 061G0603000 JT     | 9JR6100000620 | RST CHIP MAX 0R05 1/10W TZAI YUAN      |
| R006              | 061G0603101 JF     | 9JR6100001098 | RST CHIPR 100 OHM +-5% 1/10W FENGHUA   |
| R005              | 061G0603103 JY     | 9JR6100000732 | RST CHIPR 10KOHM £«-5£¥ 1/10W YAGEO    |
| R003              | 061G0603222 JI     | 9JR6100002299 | RST 0603 2.2K 5% 1/10W                 |
| C003              | 065G060310432K Y   | 9JR6500000251 | CAP 0603 100NF 10% 50V X7R             |
| C001              | 065G060310512K T   | 9JR6500000253 | CAP 0603 1UF 10% 16V X7R               |
| LED001            | 081G 15 7 EL       | 9JR8100000003 | CHIP LED WHITE 50-115UMC/343996F/TR8   |
| E715              | 715G5327R01000004S | 9JR7150000017 | IR BOARD PCB                           |
|                   | 705TQBSKJ12001     | 9JR7050001013 | PROCESS BOX                            |
|                   | 052G 1185          | 9JR5200000064 | MIDDLE TAPE (Y1200141)                 |



|            |                    |               |                                         |
|------------|--------------------|---------------|-----------------------------------------|
|            | 052G 1185          | 9JR5200000064 | MIDDLE TAPE (Y1200141)                  |
|            | Q45G9901 TV019 X1  | 9JR4500000136 | PROTECT BAGX1000X680X0.5                |
|            | 052G 1185          | 9JR5200000064 | MIDDLE TAPE (Y1200141)                  |
|            | 052G 1185          | 9JR5200000064 | MIDDLE TAPE (Y1200141)                  |
|            | P45T 77001         | 9JR4500000004 | LLDPE WRAPX-500MX-500MMX-17MIC          |
|            | 705TQBSCJ63001     | 9JR7050001010 | MB ASS'Y                                |
|            | 756TQCCB02B0670002 | 9JR7560000002 | MAIN BOARD-CBPFC4PBQ3S                  |
| U409       | 056G1133140        | 9JR5600000322 | EEPROM CAT24C128WI-GT3 128KB SO-8       |
| U4051      | 056G11336131ST     | 9JR5600000323 | IC NAND256W3A2BN6E 256M TSOP-48         |
| SMTF-U4051 | 100TEKAK005B21     | 9JR1000000085 | MCU ASS'Y-056G11336131ST                |
| SMTF-U409  | 100TEKAK006B11     | 9JR1000000086 | MCU ASS'Y-056G1133140                   |
|            | Z40G0002ALL01A     | 9JR4000000654 | SFIS LABEL 35MM*9MM                     |
| CN410      | 033G3802 3         | 9JR3300000078 | WAFER 2.0MM 3P                          |
| CN402      | 033G380213B YH     | 9JR3300000106 | WAFER 2.0MM 13P                         |
| CN409      | 033G801930F CH JS  | 9JR3300000085 | FFC CONN 1.0MM 30P R/A 34MM 6.3MM       |
| CBPF-U4051 | 070G KEYCI5366     | 9JR7000000002 | CD CI PLUS KEY FOR MT5366               |
| L601       | 073G 259903 BT     | 9JR7300000162 | CHOKE COIL 47UH 10% TSL0808S-470K1R2-PF |
| L602       | 073G 259903 BT     | 9JR7300000162 | CHOKE COIL 47UH 10% TSL0808S-470K1R2-PF |
| L603       | 073G 259903 BT     | 9JR7300000162 | CHOKE COIL 47UH 10% TSL0808S-470K1R2-PF |
| L604       | 073G 259903 BT     | 9JR7300000162 | CHOKE COIL 47UH 10% TSL0808S-470K1R2-PF |
| CN159      | 088G 50019A VA     | 9JR8800000105 | PCMICA CARD R/A 68P BLACK H=9.4         |
| CN117      | 088G 78F111VCL     | 9JR8800000176 | RCA JACK V/T 2P BLACK 1*1 H=8.6         |
| CN116      | 088G 78F121XCL     | 9JR8800000177 | RCA JACK V/T 4P W/R 1*2 H=8.6           |
| CN152      | 088G 78F131XCL     | 9JR8800000133 | RCA JACK V/T 6P Y/W/R 1*3 H=8.6         |
| CN111      | 088G 78F135XCL     | 9JR8800000134 | RCA JACK V/T 6P G/BL/R 1*3 H=8.6        |
| CN136      | 088G 78G137AYG     | 9JR8800000178 | RCA JACK 6P Y/W/R 1*3 R/A               |
| CN102      | 088G302F3G1VCL     | 9JR8800000127 | PHONE JACK V/T 3P GREEN H=8.4           |
| CN602      | 088G302G7B1ACL     | 9JR8800000179 | PHONE JACK R/A 7P BLACK H=10.5          |
| CN103      | 088G352F6B2ACL     | 9JR8800000173 | USB CONN R/A 6P BLACK 8.4MM             |
| CN404      | 088G353F9M1XCL     | 9JR8800000137 | D-SUB CONN SCREWED V/T 9P BLACK H=8.4   |
| CN101      | 088G353FFF1XCL     | 9JR8800000131 | D-SUB CONN SCREWED V/T 15P BLUE H=8.6   |
| CN151      | 088G355FLB1VCL     | 9JR8800000180 | SCART CONN V/T 21P BLACK H=8.6          |
| TU101      | 094GPASEALL17M     | 9JR9400000013 | TUNER ENV57U09D5F EUROP                 |
| CN601      | 311GW250B04BBX     | 9JR3110000011 | WAFER 2.5MM 4P                          |
| CN701      | 311GW250B13BBX     | 9JR3110000012 | WAFER 2.5MM 13P R/A 35MM 7MM            |
|            | P12G 65011         | 9JR1200000045 | HEAT PAD                                |
|            | P12G 65017         | 9JR1200000046 | HEAT PAD _430EU FOR U401                |
|            | P85T0143101        | 9JR8500000034 | SHIELD _IC_TOP_430_EU                   |
|            | P85T0144101        | 9JR8500000035 | SHIELD _IC_BTM_430_EU                   |
|            | P90T0065101        | 9JR9000000020 | HEAT SINK _IC_430_EU                    |
|            | Q12G7140007        | 9JR1200000048 | HEAT PAD FOR U602                       |
|            | 040G 457624 1B     | 9JR4000000644 | LABEL-CPU                               |
| U604       | 056G 133907        | 9JR5600000309 | IC L78L12ABUTR SOT-89                   |
| U401       | 056G 562417        | 9JR5600000218 | SCALER MT5366CAOU/B LQFP-256            |
| U751       | 056G 563149        | 9JR5600000172 | IC G903T63UF 0.6A/3.3V SOT-223          |
| U1015      | 056G 563156        | 9JR5600000219 | IC G9141T11U SOT23-5                    |
| U701       | 056G 563289        | 9JR5600000220 | DC/DC TPS54319RTER QFN-16               |
| U702       | 056G 563289        | 9JR5600000220 | DC/DC TPS54319RTER QFN-16               |
| U755       | 056G 563519        | 9JR5600000222 | IC G965-25ADJPIUF 1.8A SOP-8            |
| U1011      | 056G 575 23        | 9JR5600000223 | DEMULATOR MT5135AE/A LQFP-128           |
| U703       | 056G 585 8         | 9JR5600000175 | LDO AZ1117D-ADJTRE1 1A ADJ TO-252       |
| U704       | 056G 585 8         | 9JR5600000175 | LDO AZ1117D-ADJTRE1 1A ADJ TO-252       |
| U4053      | 056G 586 17        | 9JR5600000184 | ICL3232ECV-16Z-T TSSOP-16               |
| U402       | 056G 615144        | 9JR5600000313 | DRAM NT5CB64M16DP-CF 1GB BGA-96         |
| U602       | 056G 616106        | 9JR5600000226 | AUDIO TAS5717LPHPR 10W HTQFP-48         |
| U601       | 056G 616520        | 9JR5600000227 | IC DAC WM8524GEDT/R TSSOP-16 WOLFSON    |
| U4150      | 056G 623904        | 9JR5600000188 | IC TS5A3157DCKR SC70                    |

|        |                |               |                                     |
|--------|----------------|---------------|-------------------------------------|
| U501   | 056G 634902    | 9JR5600000228 | OTHERS TMD5251PAGR TQFP64           |
| U410   | 056G 643 35    | 9JR5600000098 | IC MAX809STRG 2.93V SOT23-3         |
| U605   | 056G 665110    | 9JR5600000230 | MULTIPLEXER CD4052BPWR TSSOP-16     |
| U1006  | 056G 665528    | 9JR5600000180 | OTHERS IC G5250M1T1U 1A SOT23-5     |
| U409   | 056G1133140    | 9JR5600000322 | EEPROM CAT24C128WI-GT3 128KB SO-8   |
| U4051  | 056G11336131ST | 9JR5600000323 | IC NAND256W3A2BN6E 256M TSOP-48     |
| U504   | 056G1133956    | 9JR5600000066 | IC CAT24C02WI-GT3 SO-8              |
| U503   | 056G1133956    | 9JR5600000066 | IC CAT24C02WI-GT3 SO-8              |
| U110   | 056G1133956    | 9JR5600000066 | IC CAT24C02WI-GT3 SO-8              |
| U502   | 056G74LS 10    | 9JR5600000231 | LOGIC SN74LVC1G125DBVR SOT-23       |
| U603   | 056T 616914    | 9JR5600000042 | AUDIO RC4580IPWR TSSOP8             |
| Q653   | 057G 417 18 T  | 9JR5700000088 | PMBT3904 SOT-23                     |
| Q652   | 057G 417 18 T  | 9JR5700000088 | PMBT3904 SOT-23                     |
| Q651   | 057G 417 18 T  | 9JR5700000088 | PMBT3904 SOT-23                     |
| Q650   | 057G 417 18 T  | 9JR5700000088 | PMBT3904 SOT-23                     |
| Q602   | 057G 417 18 T  | 9JR5700000088 | PMBT3904 SOT-23                     |
| Q601   | 057G 417 18 T  | 9JR5700000088 | PMBT3904 SOT-23                     |
| Q402   | 057G 417 18 T  | 9JR5700000088 | PMBT3904 SOT-23                     |
| Q401   | 057G 417 18 T  | 9JR5700000088 | PMBT3904 SOT-23                     |
| Q603   | 057G 420519 T  | 9JR5700000044 | BC857C                              |
| Q752   | 057G 477900 T  | 9JR5700000052 | TRA SIG SM BC847C (KEC0) R          |
| Q703   | 057G 477900 T  | 9JR5700000052 | TRA SIG SM BC847C (KEC0) R          |
| Q701   | 057G 477900 T  | 9JR5700000052 | TRA SIG SM BC847C (KEC0) R          |
| Q506   | 057G 477900 T  | 9JR5700000052 | TRA SIG SM BC847C (KEC0) R          |
| Q505   | 057G 477900 T  | 9JR5700000052 | TRA SIG SM BC847C (KEC0) R          |
| Q504   | 057G 477900 T  | 9JR5700000052 | TRA SIG SM BC847C (KEC0) R          |
| Q503   | 057G 477900 T  | 9JR5700000052 | TRA SIG SM BC847C (KEC0) R          |
| Q502   | 057G 477900 T  | 9JR5700000052 | TRA SIG SM BC847C (KEC0) R          |
| Q1157  | 057G 477900 T  | 9JR5700000052 | TRA SIG SM BC847C (KEC0) R          |
| Q1150  | 057G 477900 T  | 9JR5700000052 | TRA SIG SM BC847C (KEC0) R          |
| Q105   | 057G 760900    | 9JR5700000057 | DIGITAL TR DTC623TK SMT3            |
| Q106   | 057G 760900    | 9JR5700000057 | DIGITAL TR DTC623TK SMT3            |
| Q1151  | 057G 763904    | 9JR5700000038 | TRA FET 2N7002 SOT-23 PHILIPS       |
| Q1152  | 057G 763904    | 9JR5700000038 | TRA FET 2N7002 SOT-23 PHILIPS       |
| Q1500  | 057G 763904    | 9JR5700000038 | TRA FET 2N7002 SOT-23 PHILIPS       |
| Q1501  | 057G 763904    | 9JR5700000038 | TRA FET 2N7002 SOT-23 PHILIPS       |
| Q702   | 057G 763941    | 9JR5700000089 | MOSFET AON4421 DFN                  |
| Q751   | 057G 763941    | 9JR5700000089 | MOSFET AON4421 DFN                  |
| RP4106 | 061G 1261018JF | 9JR6100002265 | RST CHIP AR 8P4R 100 OHM +-5% 1/16W |
| RP4105 | 061G 1261018JF | 9JR6100002265 | RST CHIP AR 8P4R 100 OHM +-5% 1/16W |
| RP4104 | 061G 1261018JF | 9JR6100002265 | RST CHIP AR 8P4R 100 OHM +-5% 1/16W |
| RP4103 | 061G 1261018JF | 9JR6100002265 | RST CHIP AR 8P4R 100 OHM +-5% 1/16W |
| RP4102 | 061G 1261018JF | 9JR6100002265 | RST CHIP AR 8P4R 100 OHM +-5% 1/16W |
| RP1005 | 061G 1264708JY | 9JR6100001197 | RST CHIP ARRAY 47 OHM 1/16W 5% 8P4R |
| TH4050 | 061G 56A050 WT | 9JR6100000432 | SMD PTC 0.5A KMC3S050RY 1206        |
| R413   | 061G0402000 JT | 9JR6100000711 | RST CHIPR MAX0R05 1/16W TZAI YUAN   |
| R4105  | 061G0402000 JT | 9JR6100000711 | RST CHIPR MAX0R05 1/16W TZAI YUAN   |
| R4103  | 061G0402000 JT | 9JR6100000711 | RST CHIPR MAX0R05 1/16W TZAI YUAN   |
| R1371  | 061G0402000 JT | 9JR6100000711 | RST CHIPR MAX0R05 1/16W TZAI YUAN   |
| R1370  | 061G0402000 JT | 9JR6100000711 | RST CHIPR MAX0R05 1/16W TZAI YUAN   |
| R1341  | 061G0402000 JT | 9JR6100000711 | RST CHIPR MAX0R05 1/16W TZAI YUAN   |
| R1338  | 061G0402000 JT | 9JR6100000711 | RST CHIPR MAX0R05 1/16W TZAI YUAN   |
| R1323  | 061G0402000 JT | 9JR6100000711 | RST CHIPR MAX0R05 1/16W TZAI YUAN   |
| R1320  | 061G0402000 JT | 9JR6100000711 | RST CHIPR MAX0R05 1/16W TZAI YUAN   |
| R1317  | 061G0402000 JT | 9JR6100000711 | RST CHIPR MAX0R05 1/16W TZAI YUAN   |
| R414   | 061G0402000 JT | 9JR6100000711 | RST CHIPR MAX0R05 1/16W TZAI YUAN   |
| R4150  | 061G0402000 JT | 9JR6100000711 | RST CHIPR MAX0R05 1/16W TZAI YUAN   |

[illegible]

|       |                |               |                                  |
|-------|----------------|---------------|----------------------------------|
| R1185 | 061G04021000FT | 9JR6100000672 | RST CHIP 100R 1/16W 1%           |
| R4170 | 061G04021001FT | 9JR6100002267 | RST CHIP R 1KOHM 1/16W +/-1%     |
| R4172 | 061G04021001FT | 9JR6100002267 | RST CHIP R 1KOHM 1/16W +/-1%     |
| R4107 | 061G04021001FY | 9JR6100002268 | RST CHIP 1K 1/16W 1%             |
| R4106 | 061G04021001FY | 9JR6100002268 | RST CHIP 1K 1/16W 1%             |
| R4102 | 061G04021001FY | 9JR6100002268 | RST CHIP 1K 1/16W 1%             |
| R4101 | 061G04021001FY | 9JR6100002268 | RST CHIP 1K 1/16W 1%             |
| R730  | 061G04021003FI | 9JR6100001198 | RST CHIP 100K 1/16W 1% TA-I      |
| R4216 | 061G0402101 JT | 9JR6100000600 | RST CHIP 100R 1/16W 5% TZAI YUAN |
| R4218 | 061G0402101 JT | 9JR6100000600 | RST CHIP 100R 1/16W 5% TZAI YUAN |
| R4229 | 061G0402101 JT | 9JR6100000600 | RST CHIP 100R 1/16W 5% TZAI YUAN |
| R4230 | 061G0402101 JT | 9JR6100000600 | RST CHIP 100R 1/16W 5% TZAI YUAN |
| R4232 | 061G0402101 JT | 9JR6100000600 | RST CHIP 100R 1/16W 5% TZAI YUAN |
| R521  | 061G0402101 JT | 9JR6100000600 | RST CHIP 100R 1/16W 5% TZAI YUAN |
| R522  | 061G0402101 JT | 9JR6100000600 | RST CHIP 100R 1/16W 5% TZAI YUAN |
| R529  | 061G0402101 JT | 9JR6100000600 | RST CHIP 100R 1/16W 5% TZAI YUAN |
| R530  | 061G0402101 JT | 9JR6100000600 | RST CHIP 100R 1/16W 5% TZAI YUAN |
| R545  | 061G0402101 JT | 9JR6100000600 | RST CHIP 100R 1/16W 5% TZAI YUAN |
| R554  | 061G0402101 JT | 9JR6100000600 | RST CHIP 100R 1/16W 5% TZAI YUAN |
| R570  | 061G0402101 JT | 9JR6100000600 | RST CHIP 100R 1/16W 5% TZAI YUAN |
| R702  | 061G0402101 JT | 9JR6100000600 | RST CHIP 100R 1/16W 5% TZAI YUAN |
| R4113 | 061G0402101 JT | 9JR6100000600 | RST CHIP 100R 1/16W 5% TZAI YUAN |
| R1010 | 061G0402101 JT | 9JR6100000600 | RST CHIP 100R 1/16W 5% TZAI YUAN |
| R1019 | 061G0402101 JT | 9JR6100000600 | RST CHIP 100R 1/16W 5% TZAI YUAN |
| R1155 | 061G0402101 JT | 9JR6100000600 | RST CHIP 100R 1/16W 5% TZAI YUAN |
| R1157 | 061G0402101 JT | 9JR6100000600 | RST CHIP 100R 1/16W 5% TZAI YUAN |
| R1176 | 061G0402101 JT | 9JR6100000600 | RST CHIP 100R 1/16W 5% TZAI YUAN |
| R1178 | 061G0402101 JT | 9JR6100000600 | RST CHIP 100R 1/16W 5% TZAI YUAN |
| R1187 | 061G0402101 JT | 9JR6100000600 | RST CHIP 100R 1/16W 5% TZAI YUAN |
| R1332 | 061G0402101 JT | 9JR6100000600 | RST CHIP 100R 1/16W 5% TZAI YUAN |
| R1333 | 061G0402101 JT | 9JR6100000600 | RST CHIP 100R 1/16W 5% TZAI YUAN |
| R4104 | 061G0402101 JT | 9JR6100000600 | RST CHIP 100R 1/16W 5% TZAI YUAN |
| R4110 | 061G0402101 JT | 9JR6100000600 | RST CHIP 100R 1/16W 5% TZAI YUAN |
| R4111 | 061G0402101 JT | 9JR6100000600 | RST CHIP 100R 1/16W 5% TZAI YUAN |
| R4112 | 061G0402101 JT | 9JR6100000600 | RST CHIP 100R 1/16W 5% TZAI YUAN |
| R644  | 061G0402102 JT | 9JR6100000601 | RST CHIP 1K 1/16W 5% TZAI YUAN   |
| R642  | 061G0402102 JT | 9JR6100000601 | RST CHIP 1K 1/16W 5% TZAI YUAN   |
| R532  | 061G0402102 JT | 9JR6100000601 | RST CHIP 1K 1/16W 5% TZAI YUAN   |
| R526  | 061G0402102 JT | 9JR6100000601 | RST CHIP 1K 1/16W 5% TZAI YUAN   |
| R4204 | 061G0402102 JT | 9JR6100000601 | RST CHIP 1K 1/16W 5% TZAI YUAN   |
| R4177 | 061G0402102 JT | 9JR6100000601 | RST CHIP 1K 1/16W 5% TZAI YUAN   |
| R4176 | 061G0402102 JT | 9JR6100000601 | RST CHIP 1K 1/16W 5% TZAI YUAN   |
| R408  | 061G0402102 JT | 9JR6100000601 | RST CHIP 1K 1/16W 5% TZAI YUAN   |
| R403  | 061G0402102 JT | 9JR6100000601 | RST CHIP 1K 1/16W 5% TZAI YUAN   |
| R716  | 061G0402102 JT | 9JR6100000601 | RST CHIP 1K 1/16W 5% TZAI YUAN   |
| R632  | 061G0402103 JT | 9JR6100000602 | RST CHIP 10K 1/16W 5% TZAI YUAN  |
| R630  | 061G0402103 JT | 9JR6100000602 | RST CHIP 10K 1/16W 5% TZAI YUAN  |
| R628  | 061G0402103 JT | 9JR6100000602 | RST CHIP 10K 1/16W 5% TZAI YUAN  |
| R627  | 061G0402103 JT | 9JR6100000602 | RST CHIP 10K 1/16W 5% TZAI YUAN  |
| R618  | 061G0402103 JT | 9JR6100000602 | RST CHIP 10K 1/16W 5% TZAI YUAN  |
| R577  | 061G0402103 JT | 9JR6100000602 | RST CHIP 10K 1/16W 5% TZAI YUAN  |
| R576  | 061G0402103 JT | 9JR6100000602 | RST CHIP 10K 1/16W 5% TZAI YUAN  |
| R575  | 061G0402103 JT | 9JR6100000602 | RST CHIP 10K 1/16W 5% TZAI YUAN  |
| R548  | 061G0402103 JT | 9JR6100000602 | RST CHIP 10K 1/16W 5% TZAI YUAN  |
| R547  | 061G0402103 JT | 9JR6100000602 | RST CHIP 10K 1/16W 5% TZAI YUAN  |
| R535  | 061G0402103 JT | 9JR6100000602 | RST CHIP 10K 1/16W 5% TZAI YUAN  |
| R534  | 061G0402103 JT | 9JR6100000602 | RST CHIP 10K 1/16W 5% TZAI YUAN  |

|       |                |               |                                  |
|-------|----------------|---------------|----------------------------------|
| R518  | 061G0402103 JT | 9JR6100000602 | RST CHIP 10K 1/16W 5% TZAI YUAN  |
| R4241 | 061G0402103 JT | 9JR6100000602 | RST CHIP 10K 1/16W 5% TZAI YUAN  |
| R766  | 061G0402103 JT | 9JR6100000602 | RST CHIP 10K 1/16W 5% TZAI YUAN  |
| R764  | 061G0402103 JT | 9JR6100000602 | RST CHIP 10K 1/16W 5% TZAI YUAN  |
| R755  | 061G0402103 JT | 9JR6100000602 | RST CHIP 10K 1/16W 5% TZAI YUAN  |
| R691  | 061G0402103 JT | 9JR6100000602 | RST CHIP 10K 1/16W 5% TZAI YUAN  |
| R675  | 061G0402103 JT | 9JR6100000602 | RST CHIP 10K 1/16W 5% TZAI YUAN  |
| R671  | 061G0402103 JT | 9JR6100000602 | RST CHIP 10K 1/16W 5% TZAI YUAN  |
| R670  | 061G0402103 JT | 9JR6100000602 | RST CHIP 10K 1/16W 5% TZAI YUAN  |
| R668  | 061G0402103 JT | 9JR6100000602 | RST CHIP 10K 1/16W 5% TZAI YUAN  |
| R667  | 061G0402103 JT | 9JR6100000602 | RST CHIP 10K 1/16W 5% TZAI YUAN  |
| R663  | 061G0402103 JT | 9JR6100000602 | RST CHIP 10K 1/16W 5% TZAI YUAN  |
| R647  | 061G0402103 JT | 9JR6100000602 | RST CHIP 10K 1/16W 5% TZAI YUAN  |
| R646  | 061G0402103 JT | 9JR6100000602 | RST CHIP 10K 1/16W 5% TZAI YUAN  |
| R635  | 061G0402103 JT | 9JR6100000602 | RST CHIP 10K 1/16W 5% TZAI YUAN  |
| R634  | 061G0402103 JT | 9JR6100000602 | RST CHIP 10K 1/16W 5% TZAI YUAN  |
| R1335 | 061G0402103 JT | 9JR6100000602 | RST CHIP 10K 1/16W 5% TZAI YUAN  |
| R1293 | 061G0402103 JT | 9JR6100000602 | RST CHIP 10K 1/16W 5% TZAI YUAN  |
| R1283 | 061G0402103 JT | 9JR6100000602 | RST CHIP 10K 1/16W 5% TZAI YUAN  |
| R1256 | 061G0402103 JT | 9JR6100000602 | RST CHIP 10K 1/16W 5% TZAI YUAN  |
| R1255 | 061G0402103 JT | 9JR6100000602 | RST CHIP 10K 1/16W 5% TZAI YUAN  |
| R1250 | 061G0402103 JT | 9JR6100000602 | RST CHIP 10K 1/16W 5% TZAI YUAN  |
| R1206 | 061G0402103 JT | 9JR6100000602 | RST CHIP 10K 1/16W 5% TZAI YUAN  |
| R1177 | 061G0402103 JT | 9JR6100000602 | RST CHIP 10K 1/16W 5% TZAI YUAN  |
| R1158 | 061G0402103 JT | 9JR6100000602 | RST CHIP 10K 1/16W 5% TZAI YUAN  |
| R1154 | 061G0402103 JT | 9JR6100000602 | RST CHIP 10K 1/16W 5% TZAI YUAN  |
| R1152 | 061G0402103 JT | 9JR6100000602 | RST CHIP 10K 1/16W 5% TZAI YUAN  |
| R1017 | 061G0402103 JT | 9JR6100000602 | RST CHIP 10K 1/16W 5% TZAI YUAN  |
| R1007 | 061G0402103 JT | 9JR6100000602 | RST CHIP 10K 1/16W 5% TZAI YUAN  |
| R1006 | 061G0402103 JT | 9JR6100000602 | RST CHIP 10K 1/16W 5% TZAI YUAN  |
| R4239 | 061G0402103 JT | 9JR6100000602 | RST CHIP 10K 1/16W 5% TZAI YUAN  |
| R4237 | 061G0402103 JT | 9JR6100000602 | RST CHIP 10K 1/16W 5% TZAI YUAN  |
| R4225 | 061G0402103 JT | 9JR6100000602 | RST CHIP 10K 1/16W 5% TZAI YUAN  |
| R4215 | 061G0402103 JT | 9JR6100000602 | RST CHIP 10K 1/16W 5% TZAI YUAN  |
| R4212 | 061G0402103 JT | 9JR6100000602 | RST CHIP 10K 1/16W 5% TZAI YUAN  |
| R4208 | 061G0402103 JT | 9JR6100000602 | RST CHIP 10K 1/16W 5% TZAI YUAN  |
| R4207 | 061G0402103 JT | 9JR6100000602 | RST CHIP 10K 1/16W 5% TZAI YUAN  |
| R4206 | 061G0402103 JT | 9JR6100000602 | RST CHIP 10K 1/16W 5% TZAI YUAN  |
| R4205 | 061G0402103 JT | 9JR6100000602 | RST CHIP 10K 1/16W 5% TZAI YUAN  |
| R4203 | 061G0402103 JT | 9JR6100000602 | RST CHIP 10K 1/16W 5% TZAI YUAN  |
| R4202 | 061G0402103 JT | 9JR6100000602 | RST CHIP 10K 1/16W 5% TZAI YUAN  |
| R4174 | 061G0402103 JT | 9JR6100000602 | RST CHIP 10K 1/16W 5% TZAI YUAN  |
| R4169 | 061G0402103 JT | 9JR6100000602 | RST CHIP 10K 1/16W 5% TZAI YUAN  |
| R1337 | 061G0402103 JT | 9JR6100000602 | RST CHIP 10K 1/16W 5% TZAI YUAN  |
| R640  | 061G0402104 JT | 9JR6100000603 | RST CHIP 100K 1/16W 5% TZAI YUAN |
| R553  | 061G0402104 JT | 9JR6100000603 | RST CHIP 100K 1/16W 5% TZAI YUAN |
| R4217 | 061G0402104 JT | 9JR6100000603 | RST CHIP 100K 1/16W 5% TZAI YUAN |
| R1336 | 061G0402104 JT | 9JR6100000603 | RST CHIP 100K 1/16W 5% TZAI YUAN |
| R1294 | 061G04021201FY | 9JR6100001199 | RST CHIP 1.2K 1/16W 1%           |
| R4231 | 061G04021201FY | 9JR6100001199 | RST CHIP 1.2K 1/16W 1%           |
| R1295 | 061G04021202FT | 9JR6100002270 | RST 0402 12K 1% 1/16W            |
| R4178 | 061G04021301FT | 9JR6100002271 | RST 0402 1.3K 1% 1/16W           |
| R1321 | 061G04021500FT | 9JR6100000329 | RST CHIP 150R 1/16W 1%           |
| R604  | 061G04021502FT | 9JR6100002272 | RST 0402 15K 1% 1/16W            |
| R607  | 061G04021502FT | 9JR6100002272 | RST 0402 15K 1% 1/16W            |
| R4201 | 061G0402153 JT | 9JR6100000876 | RST CHIP 15K 1/16W 5% TZAI YUAN  |
| R751  | 061G0402153 JT | 9JR6100000876 | RST CHIP 15K 1/16W 5% TZAI YUAN  |

|       |                |               |                                         |
|-------|----------------|---------------|-----------------------------------------|
| R1163 | 061G0402180 JT | 9JR6100000605 | RST CHIP 18R 1/16W 5% TZAI YUAN         |
| R1165 | 061G0402180 JT | 9JR6100000605 | RST CHIP 18R 1/16W 5% TZAI YUAN         |
| R1167 | 061G0402180 JT | 9JR6100000605 | RST CHIP 18R 1/16W 5% TZAI YUAN         |
| R541  | 061G04021800FT | 9JR6100001206 | RST CHIP 180R 1/16W 1% TZAI YUAN        |
| R736  | 061G04021803FT | 9JR6100002274 | RST 0402 180K 1/16W 1% TZAI YUAN        |
| R737  | 061G04021803FT | 9JR6100002274 | RST 0402 180K 1/16W 1% TZAI YUAN        |
| R661  | 061G04021822FF | 9JR6100002275 | RST CHIPR 18.2KOHM +-1% 1/16W FENGHUA   |
| R692  | 061G0402203 JT | 9JR6100002276 | RST CHIP 20K 1/16W 5% TZAI YUAN         |
| R672  | 061G0402203 JT | 9JR6100002276 | RST CHIP 20K 1/16W 5% TZAI YUAN         |
| R679  | 061G04022102FI | 9JR6100002277 | TEST ONLY RST CHIP 21K 1/16W 1% TA-I    |
| R689  | 061G04022102FI | 9JR6100002277 | TEST ONLY RST CHIP 21K 1/16W 1% TA-I    |
| R1264 | 061G0402220 JT | 9JR6100000607 | RST CHIP 22R 1/16W 5% TZAI YUAN         |
| R1265 | 061G0402220 JT | 9JR6100000607 | RST CHIP 22R 1/16W 5% TZAI YUAN         |
| R1267 | 061G0402220 JT | 9JR6100000607 | RST CHIP 22R 1/16W 5% TZAI YUAN         |
| R1268 | 061G0402220 JT | 9JR6100000607 | RST CHIP 22R 1/16W 5% TZAI YUAN         |
| R1269 | 061G0402220 JT | 9JR6100000607 | RST CHIP 22R 1/16W 5% TZAI YUAN         |
| R4227 | 061G0402220 JT | 9JR6100000607 | RST CHIP 22R 1/16W 5% TZAI YUAN         |
| R1290 | 061G0402220 JT | 9JR6100000607 | RST CHIP 22R 1/16W 5% TZAI YUAN         |
| R1289 | 061G0402220 JT | 9JR6100000607 | RST CHIP 22R 1/16W 5% TZAI YUAN         |
| R1288 | 061G0402220 JT | 9JR6100000607 | RST CHIP 22R 1/16W 5% TZAI YUAN         |
| R1287 | 061G0402220 JT | 9JR6100000607 | RST CHIP 22R 1/16W 5% TZAI YUAN         |
| R1280 | 061G0402220 JT | 9JR6100000607 | RST CHIP 22R 1/16W 5% TZAI YUAN         |
| R1279 | 061G0402220 JT | 9JR6100000607 | RST CHIP 22R 1/16W 5% TZAI YUAN         |
| R1278 | 061G0402220 JT | 9JR6100000607 | RST CHIP 22R 1/16W 5% TZAI YUAN         |
| R1277 | 061G0402220 JT | 9JR6100000607 | RST CHIP 22R 1/16W 5% TZAI YUAN         |
| R1276 | 061G0402220 JT | 9JR6100000607 | RST CHIP 22R 1/16W 5% TZAI YUAN         |
| R1275 | 061G0402220 JT | 9JR6100000607 | RST CHIP 22R 1/16W 5% TZAI YUAN         |
| R1274 | 061G0402220 JT | 9JR6100000607 | RST CHIP 22R 1/16W 5% TZAI YUAN         |
| R1273 | 061G0402220 JT | 9JR6100000607 | RST CHIP 22R 1/16W 5% TZAI YUAN         |
| R1272 | 061G0402220 JT | 9JR6100000607 | RST CHIP 22R 1/16W 5% TZAI YUAN         |
| R1271 | 061G0402220 JT | 9JR6100000607 | RST CHIP 22R 1/16W 5% TZAI YUAN         |
| R1270 | 061G0402220 JT | 9JR6100000607 | RST CHIP 22R 1/16W 5% TZAI YUAN         |
| R1180 | 061G0402222 JT | 9JR6100000608 | RST CHIP 2K2 1/16W 5% TZAI YUAN         |
| R1179 | 061G0402222 JT | 9JR6100000608 | RST CHIP 2K2 1/16W 5% TZAI YUAN         |
| R706  | 061G0402223 JT | 9JR6100000609 | RST CHIP 22K 1/16W 5% TZAI YUAN         |
| R4108 | 061G04022400FT | 9JR6100002279 | RST CHIPR 240 OHM +-1% 1/16W TZAI YUAN  |
| R1184 | 061G04022400FT | 9JR6100002279 | RST CHIPR 240 OHM +-1% 1/16W TZAI YUAN  |
| R703  | 061G0402272 JT | 9JR6100000877 | RST CHIP 2K7 1/16W 5% TZAI YUAN         |
| R502  | 061G0402273 JT | 9JR6100000610 | RST CHIP 27K 1/16W 5% TZAI YUAN         |
| R722  | 061G04023000FT | 9JR6100002281 | RST CHIP 300R 1/16W 1%                  |
| R718  | 061G04023000FT | 9JR6100002281 | RST CHIP 300R 1/16W 1%                  |
| R626  | 061G0402303 JT | 9JR6100000878 | RST CHIP R 30KOHM 1/16W +/-5% TZAI YUAN |
| R637  | 061G0402303 JT | 9JR6100000878 | RST CHIP R 30KOHM 1/16W +/-5% TZAI YUAN |
| R662  | 061G0402330 JT | 9JR6100000611 | RST CHIP 33R 1/16W 5% TZAI YUAN         |
| R657  | 061G0402330 JT | 9JR6100000611 | RST CHIP 33R 1/16W 5% TZAI YUAN         |
| R656  | 061G0402330 JT | 9JR6100000611 | RST CHIP 33R 1/16W 5% TZAI YUAN         |
| R655  | 061G0402330 JT | 9JR6100000611 | RST CHIP 33R 1/16W 5% TZAI YUAN         |
| R621  | 061G0402330 JT | 9JR6100000611 | RST CHIP 33R 1/16W 5% TZAI YUAN         |
| R538  | 061G0402330 JT | 9JR6100000611 | RST CHIP 33R 1/16W 5% TZAI YUAN         |
| R524  | 061G0402330 JT | 9JR6100000611 | RST CHIP 33R 1/16W 5% TZAI YUAN         |
| R4214 | 061G0402330 JT | 9JR6100000611 | RST CHIP 33R 1/16W 5% TZAI YUAN         |
| R721  | 061G04023302FT | 9JR6100002283 | RST CHIP R 33KOHM 1/16W +/-1%           |
| R729  | 061G04023302FT | 9JR6100002283 | RST CHIP R 33KOHM 1/16W +/-1%           |
| R760  | 061G04023302FT | 9JR6100002283 | RST CHIP R 33KOHM 1/16W +/-1%           |
| R4181 | 061G0402331 JT | 9JR6100000612 | RST CHIP 330R 1/16W 5% TZAI YUAN        |
| R4183 | 061G0402331 JT | 9JR6100000612 | RST CHIP 330R 1/16W 5% TZAI YUAN        |
| R704  | 061G0402333 JT | 9JR6100002284 | RST CHIP 33K 1/16W 5% TZAI YUAN         |

|       |                |               |                                   |
|-------|----------------|---------------|-----------------------------------|
| R546  | 061G04024021FT | 9JR6100002285 | RST 0402 4.02K 1% 1/16W           |
| R759  | 061G04024301FT | 9JR6100002286 | RST CHIP 4K3 1/16W 1%             |
| R676  | 061G04024302FT | 9JR6100002287 | RST 0402 43K 1% 1/16W             |
| R688  | 061G04024302FT | 9JR6100002287 | RST 0402 43K 1% 1/16W             |
| R612  | 061G04024532FT | 9JR6100002288 | RST 0402 45.3K 1% 1/16W TZAI YUAN |
| R613  | 061G04024532FT | 9JR6100002288 | RST 0402 45.3K 1% 1/16W TZAI YUAN |
| R1291 | 061G0402470 JT | 9JR6100002289 | RST CHIP 47R 1/16W 5% TZAI YUAN   |
| R1292 | 061G0402470 JT | 9JR6100002289 | RST CHIP 47R 1/16W 5% TZAI YUAN   |
| R4151 | 061G0402470 JT | 9JR6100002289 | RST CHIP 47R 1/16W 5% TZAI YUAN   |
| R666  | 061G04024700FT | 9JR6100000678 | RST CHIP 470R 1/16W 1%            |
| R665  | 061G04024700FT | 9JR6100000678 | RST CHIP 470R 1/16W 1%            |
| R1032 | 061G0402471 JT | 9JR6100000880 | RST CHIP 470R 1/16W 5% TZAI YUAN  |
| R1031 | 061G0402471 JT | 9JR6100000880 | RST CHIP 470R 1/16W 5% TZAI YUAN  |
| R1030 | 061G0402471 JT | 9JR6100000880 | RST CHIP 470R 1/16W 5% TZAI YUAN  |
| R1022 | 061G0402471 JT | 9JR6100000880 | RST CHIP 470R 1/16W 5% TZAI YUAN  |
| R643  | 061G0402472 JT | 9JR6100000615 | RST CHIP 4K7 1/16W 5% TZAI YUAN   |
| R650  | 061G0402472 JT | 9JR6100000615 | RST CHIP 4K7 1/16W 5% TZAI YUAN   |
| R705  | 061G0402472 JT | 9JR6100000615 | RST CHIP 4K7 1/16W 5% TZAI YUAN   |
| R714  | 061G0402472 JT | 9JR6100000615 | RST CHIP 4K7 1/16W 5% TZAI YUAN   |
| R734  | 061G0402472 JT | 9JR6100000615 | RST CHIP 4K7 1/16W 5% TZAI YUAN   |
| R401  | 061G0402472 JT | 9JR6100000615 | RST CHIP 4K7 1/16W 5% TZAI YUAN   |
| R4247 | 061G0402472 JT | 9JR6100000615 | RST CHIP 4K7 1/16W 5% TZAI YUAN   |
| R4245 | 061G0402472 JT | 9JR6100000615 | RST CHIP 4K7 1/16W 5% TZAI YUAN   |
| R4244 | 061G0402472 JT | 9JR6100000615 | RST CHIP 4K7 1/16W 5% TZAI YUAN   |
| R569  | 061G0402472 JT | 9JR6100000615 | RST CHIP 4K7 1/16W 5% TZAI YUAN   |
| R527  | 061G0402472 JT | 9JR6100000615 | RST CHIP 4K7 1/16W 5% TZAI YUAN   |
| R528  | 061G0402472 JT | 9JR6100000615 | RST CHIP 4K7 1/16W 5% TZAI YUAN   |
| R533  | 061G0402472 JT | 9JR6100000615 | RST CHIP 4K7 1/16W 5% TZAI YUAN   |
| R539  | 061G0402472 JT | 9JR6100000615 | RST CHIP 4K7 1/16W 5% TZAI YUAN   |
| R540  | 061G0402472 JT | 9JR6100000615 | RST CHIP 4K7 1/16W 5% TZAI YUAN   |
| R542  | 061G0402472 JT | 9JR6100000615 | RST CHIP 4K7 1/16W 5% TZAI YUAN   |
| R549  | 061G0402472 JT | 9JR6100000615 | RST CHIP 4K7 1/16W 5% TZAI YUAN   |
| R550  | 061G0402472 JT | 9JR6100000615 | RST CHIP 4K7 1/16W 5% TZAI YUAN   |
| R552  | 061G0402472 JT | 9JR6100000615 | RST CHIP 4K7 1/16W 5% TZAI YUAN   |
| R4243 | 061G0402472 JT | 9JR6100000615 | RST CHIP 4K7 1/16W 5% TZAI YUAN   |
| R1203 | 061G0402472 JT | 9JR6100000615 | RST CHIP 4K7 1/16W 5% TZAI YUAN   |
| R1205 | 061G0402472 JT | 9JR6100000615 | RST CHIP 4K7 1/16W 5% TZAI YUAN   |
| R1258 | 061G0402472 JT | 9JR6100000615 | RST CHIP 4K7 1/16W 5% TZAI YUAN   |
| R1266 | 061G0402472 JT | 9JR6100000615 | RST CHIP 4K7 1/16W 5% TZAI YUAN   |
| R1281 | 061G0402472 JT | 9JR6100000615 | RST CHIP 4K7 1/16W 5% TZAI YUAN   |
| R1282 | 061G0402472 JT | 9JR6100000615 | RST CHIP 4K7 1/16W 5% TZAI YUAN   |
| R1372 | 061G0402472 JT | 9JR6100000615 | RST CHIP 4K7 1/16W 5% TZAI YUAN   |
| R1373 | 061G0402472 JT | 9JR6100000615 | RST CHIP 4K7 1/16W 5% TZAI YUAN   |
| R404  | 061G0402472 JT | 9JR6100000615 | RST CHIP 4K7 1/16W 5% TZAI YUAN   |
| R406  | 061G0402472 JT | 9JR6100000615 | RST CHIP 4K7 1/16W 5% TZAI YUAN   |
| R410  | 061G0402472 JT | 9JR6100000615 | RST CHIP 4K7 1/16W 5% TZAI YUAN   |
| R4167 | 061G0402472 JT | 9JR6100000615 | RST CHIP 4K7 1/16W 5% TZAI YUAN   |
| R4179 | 061G0402472 JT | 9JR6100000615 | RST CHIP 4K7 1/16W 5% TZAI YUAN   |
| R4220 | 061G0402472 JT | 9JR6100000615 | RST CHIP 4K7 1/16W 5% TZAI YUAN   |
| R4221 | 061G0402472 JT | 9JR6100000615 | RST CHIP 4K7 1/16W 5% TZAI YUAN   |
| R4222 | 061G0402472 JT | 9JR6100000615 | RST CHIP 4K7 1/16W 5% TZAI YUAN   |
| R4223 | 061G0402472 JT | 9JR6100000615 | RST CHIP 4K7 1/16W 5% TZAI YUAN   |
| R4224 | 061G0402472 JT | 9JR6100000615 | RST CHIP 4K7 1/16W 5% TZAI YUAN   |
| R4242 | 061G0402472 JT | 9JR6100000615 | RST CHIP 4K7 1/16W 5% TZAI YUAN   |
| R1211 | 061G0402473 JT | 9JR6100000616 | RST CHIP 47K 1/16W 5% TZAI YUAN   |
| R1212 | 061G0402473 JT | 9JR6100000616 | RST CHIP 47K 1/16W 5% TZAI YUAN   |
| R1213 | 061G0402473 JT | 9JR6100000616 | RST CHIP 47K 1/16W 5% TZAI YUAN   |



|       |                |               |                                    |
|-------|----------------|---------------|------------------------------------|
| R1214 | 061G0402473 JT | 9JR6100000616 | RST CHIP 47K 1/16W 5% TZAI YUAN    |
| R519  | 061G0402473 JT | 9JR6100000616 | RST CHIP 47K 1/16W 5% TZAI YUAN    |
| R520  | 061G0402473 JT | 9JR6100000616 | RST CHIP 47K 1/16W 5% TZAI YUAN    |
| R536  | 061G0402473 JT | 9JR6100000616 | RST CHIP 47K 1/16W 5% TZAI YUAN    |
| R537  | 061G0402473 JT | 9JR6100000616 | RST CHIP 47K 1/16W 5% TZAI YUAN    |
| R555  | 061G0402473 JT | 9JR6100000616 | RST CHIP 47K 1/16W 5% TZAI YUAN    |
| R601  | 061G0402473 JT | 9JR6100000616 | RST CHIP 47K 1/16W 5% TZAI YUAN    |
| R602  | 061G0402473 JT | 9JR6100000616 | RST CHIP 47K 1/16W 5% TZAI YUAN    |
| R614  | 061G0402473 JT | 9JR6100000616 | RST CHIP 47K 1/16W 5% TZAI YUAN    |
| R617  | 061G0402473 JT | 9JR6100000616 | RST CHIP 47K 1/16W 5% TZAI YUAN    |
| R1202 | 061G0402473 JT | 9JR6100000616 | RST CHIP 47K 1/16W 5% TZAI YUAN    |
| R619  | 061G0402473 JT | 9JR6100000616 | RST CHIP 47K 1/16W 5% TZAI YUAN    |
| R622  | 061G0402473 JT | 9JR6100000616 | RST CHIP 47K 1/16W 5% TZAI YUAN    |
| R1191 | 061G0402473 JT | 9JR6100000616 | RST CHIP 47K 1/16W 5% TZAI YUAN    |
| R1192 | 061G0402473 JT | 9JR6100000616 | RST CHIP 47K 1/16W 5% TZAI YUAN    |
| R1193 | 061G0402473 JT | 9JR6100000616 | RST CHIP 47K 1/16W 5% TZAI YUAN    |
| R1194 | 061G0402473 JT | 9JR6100000616 | RST CHIP 47K 1/16W 5% TZAI YUAN    |
| R1195 | 061G0402473 JT | 9JR6100000616 | RST CHIP 47K 1/16W 5% TZAI YUAN    |
| R1196 | 061G0402473 JT | 9JR6100000616 | RST CHIP 47K 1/16W 5% TZAI YUAN    |
| R1197 | 061G0402473 JT | 9JR6100000616 | RST CHIP 47K 1/16W 5% TZAI YUAN    |
| R1198 | 061G0402473 JT | 9JR6100000616 | RST CHIP 47K 1/16W 5% TZAI YUAN    |
| R1199 | 061G0402473 JT | 9JR6100000616 | RST CHIP 47K 1/16W 5% TZAI YUAN    |
| R1200 | 061G0402473 JT | 9JR6100000616 | RST CHIP 47K 1/16W 5% TZAI YUAN    |
| R1201 | 061G0402473 JT | 9JR6100000616 | RST CHIP 47K 1/16W 5% TZAI YUAN    |
| R531  | 061G0402474 JT | 9JR6100000881 | RST CHIP 470K 1/16W 5% TZAI YUAN   |
| R525  | 061G0402474 JT | 9JR6100000881 | RST CHIP 470K 1/16W 5% TZAI YUAN   |
| R673  | 061G0402479 JT | 9JR6100002290 | RST CHIP 4R7 1/16W 5% TZAI YUAN    |
| R674  | 061G0402479 JT | 9JR6100002290 | RST CHIP 4R7 1/16W 5% TZAI YUAN    |
| R4171 | 061G04025101FT | 9JR6100002291 | RST CHIP 5.1K 1/16W 1% TZAI YUAN   |
| R1342 | 061G04025109FT | 9JR6100001225 | RST 0402 51R 1% 1/16W              |
| R1322 | 061G04025109FT | 9JR6100001225 | RST 0402 51R 1% 1/16W              |
| R1319 | 061G04025109FT | 9JR6100001225 | RST 0402 51R 1% 1/16W              |
| R1318 | 061G04025109FT | 9JR6100001225 | RST 0402 51R 1% 1/16W              |
| R753  | 061G0402512 JT | 9JR6100002292 | RST CHIP 5K1 1/16W 5% TZAI YUAN    |
| R1015 | 061G0402513 JT | 9JR6100000882 | RST CHIP 51K 1/16W 5% TZAI YUAN    |
| R1156 | 061G0402560 JT | 9JR6100002293 | RST CHIP 56R 1/16W 5% TZAI YUAN    |
| R1161 | 061G0402560 JT | 9JR6100002293 | RST CHIP 56R 1/16W 5% TZAI YUAN    |
| R1164 | 061G0402560 JT | 9JR6100002293 | RST CHIP 56R 1/16W 5% TZAI YUAN    |
| R4168 | 061G04025600FY | 9JR6100000450 | RST CHIP 560R 1/16W 1%             |
| R1004 | 061G0402680 JT | 9JR6100000617 | RST CHIP 68R 1/16W 5% TZAI YUAN    |
| R1005 | 061G0402680 JT | 9JR6100000617 | RST CHIP 68R 1/16W 5% TZAI YUAN    |
| R1018 | 061G0402680 JT | 9JR6100000617 | RST CHIP 68R 1/16W 5% TZAI YUAN    |
| R1153 | 061G0402680 JT | 9JR6100000617 | RST CHIP 68R 1/16W 5% TZAI YUAN    |
| R1159 | 061G0402680 JT | 9JR6100000617 | RST CHIP 68R 1/16W 5% TZAI YUAN    |
| R1166 | 061G0402680 JT | 9JR6100000617 | RST CHIP 68R 1/16W 5% TZAI YUAN    |
| R1170 | 061G0402680 JT | 9JR6100000617 | RST CHIP 68R 1/16W 5% TZAI YUAN    |
| R1173 | 061G0402680 JT | 9JR6100000617 | RST CHIP 68R 1/16W 5% TZAI YUAN    |
| R1175 | 061G0402680 JT | 9JR6100000617 | RST CHIP 68R 1/16W 5% TZAI YUAN    |
| R4233 | 061G04026801FT | 9JR6100001230 | RST CHIPR 6K8 +-1% 1/16W TZAI YUAN |
| R1001 | 061G0402750 JT | 9JR6100000618 | RST 0402 75R 5% 1/16W              |
| R1002 | 061G0402750 JT | 9JR6100000618 | RST 0402 75R 5% 1/16W              |
| R1003 | 061G0402750 JT | 9JR6100000618 | RST 0402 75R 5% 1/16W              |
| R1014 | 061G0402750 JT | 9JR6100000618 | RST 0402 75R 5% 1/16W              |
| R1020 | 061G0402750 JT | 9JR6100000618 | RST 0402 75R 5% 1/16W              |
| R1024 | 061G0402750 JT | 9JR6100000618 | RST 0402 75R 5% 1/16W              |
| R1028 | 061G0402750 JT | 9JR6100000618 | RST 0402 75R 5% 1/16W              |
| R1169 | 061G0402750 JT | 9JR6100000618 | RST 0402 75R 5% 1/16W              |

|       |                  |               |                                      |
|-------|------------------|---------------|--------------------------------------|
| R1171 | 061G0402750 JT   | 9JR6100000618 | RST 0402 75R 5% 1/16W                |
| R1174 | 061G0402750 JT   | 9JR6100000618 | RST 0402 75R 5% 1/16W                |
| R1188 | 061G0402750 JT   | 9JR6100000618 | RST 0402 75R 5% 1/16W                |
| R715  | 061G0402752 JT   | 9JR6100002295 | RST CHIP 7K5 1/16W 5% TZAI YUAN      |
| R731  | 061G0402752 JT   | 9JR6100002295 | RST CHIP 7K5 1/16W 5% TZAI YUAN      |
| R758  | 061G0402752 JT   | 9JR6100002295 | RST CHIP 7K5 1/16W 5% TZAI YUAN      |
| R551  | 061G04028209FT   | 9JR6100001232 | RST 0402 82R 1% 1/16W                |
| R631  | 061G0603000 JT   | 9JR6100000620 | RST CHIP MAX 0R05 1/10W TZAI YUAN    |
| R605  | 061G0603100 JT   | 9JR6100000621 | RST CHIP 10R 1/10W 5% TZAI YUAN      |
| R405  | 061G0603101 JT   | 9JR6100000622 | RST CHIP 100R 1/10W 5% TZAI YUAN     |
| R1204 | 061G0603101 JT   | 9JR6100000622 | RST CHIP 100R 1/10W 5% TZAI YUAN     |
| R1251 | 061G0603103 JT   | 9JR6100000624 | RST CHIP 10K 1/10W 5% TZAI YUAN      |
| R1252 | 061G0603103 JT   | 9JR6100000624 | RST CHIP 10K 1/10W 5% TZAI YUAN      |
| R1253 | 061G0603103 JT   | 9JR6100000624 | RST CHIP 10K 1/10W 5% TZAI YUAN      |
| R418  | 061G0603103 JT   | 9JR6100000624 | RST CHIP 10K 1/10W 5% TZAI YUAN      |
| R1285 | 061G0603106 JT   | 9JR6100002364 | RST CHIP R 10M 1/10W +/-5%           |
| R757  | 061G0603109 JT   | 9JR6100000627 | RST CHIP 1R 1/10W 5% TZAI YUAN       |
| R712  | 061G06031200FT   | 9JR6100000535 | RST CHIP 120R 1/10W 1%               |
| R720  | 061G06031202FT   | 9JR6100002297 | RST CHIP 12K 1/10W 1%                |
| R761  | 061G06031202FT   | 9JR6100002297 | RST CHIP 12K 1/10W 1%                |
| R756  | 061G0603181 JI   | 9JR6100002298 | RST 0603 180R 5% 1/10W               |
| R726  | 061G06032709FT   | 9JR6100001236 | RST CHIP 27R 1/10W 1%                |
| R611  | 061G06032802FF   | 9JR6100002300 | RST CHIPR 28KOHM +/-1% 1/10W FENGHUA |
| R610  | 061G06032802FF   | 9JR6100002300 | RST CHIPR 28KOHM +/-1% 1/10W FENGHUA |
| R1330 | 061G0603472 JT   | 9JR6100000641 | RST CHIP 4K7 1/10W 5% TZAI YUAN      |
| R1331 | 061G0603472 JT   | 9JR6100000641 | RST CHIP 4K7 1/10W 5% TZAI YUAN      |
| R1286 | 061G0603755 JT   | 9JR6100002365 | RST 0603 7.5M 5% 1/10W TZAI YUAN     |
| R724  | 061G1206000 JT   | 9JR6100000662 | RST CHIPR MAX0R05 1/4W TZAI YUAN     |
| R732  | 061G1206000 JT   | 9JR6100000662 | RST CHIPR MAX0R05 1/4W TZAI YUAN     |
| R754  | 061G1206000 JT   | 9JR6100000662 | RST CHIPR MAX0R05 1/4W TZAI YUAN     |
| C1224 | 065G040210031D 3 | 9JR6500001426 | CAP 0402 10PF 0.5PF 50V NP0          |
| C1229 | 065G040210031D 3 | 9JR6500001426 | CAP 0402 10PF 0.5PF 50V NP0          |
| C1230 | 065G040210031D 3 | 9JR6500001426 | CAP 0402 10PF 0.5PF 50V NP0          |
| C658  | 065G040210232K Y | 9JR6500000225 | CAP CHIP 0402 1N 50V X7R +/-10%      |
| C659  | 065G040210232K Y | 9JR6500000225 | CAP CHIP 0402 1N 50V X7R +/-10%      |
| C660  | 065G040210232K Y | 9JR6500000225 | CAP CHIP 0402 1N 50V X7R +/-10%      |
| C665  | 065G040210232K Y | 9JR6500000225 | CAP CHIP 0402 1N 50V X7R +/-10%      |
| C1172 | 065G040210332K Y | 9JR6500000232 | CAP CHIP 0402 10N 50V X7R +/-10%     |
| C1173 | 065G040210332K Y | 9JR6500000232 | CAP CHIP 0402 10N 50V X7R +/-10%     |
| C1174 | 065G040210332K Y | 9JR6500000232 | CAP CHIP 0402 10N 50V X7R +/-10%     |
| C1175 | 065G040210332K Y | 9JR6500000232 | CAP CHIP 0402 10N 50V X7R +/-10%     |
| C1176 | 065G040210332K Y | 9JR6500000232 | CAP CHIP 0402 10N 50V X7R +/-10%     |
| C1186 | 065G040210332K Y | 9JR6500000232 | CAP CHIP 0402 10N 50V X7R +/-10%     |
| C1310 | 065G040210332K Y | 9JR6500000232 | CAP CHIP 0402 10N 50V X7R +/-10%     |
| C1314 | 065G040210332K Y | 9JR6500000232 | CAP CHIP 0402 10N 50V X7R +/-10%     |
| C653  | 065G040210332K Y | 9JR6500000232 | CAP CHIP 0402 10N 50V X7R +/-10%     |
| C733  | 065G040210332K Y | 9JR6500000232 | CAP CHIP 0402 10N 50V X7R +/-10%     |
| C735  | 065G040210332K Y | 9JR6500000232 | CAP CHIP 0402 10N 50V X7R +/-10%     |
| C1166 | 065G040210332K Y | 9JR6500000232 | CAP CHIP 0402 10N 50V X7R +/-10%     |
| C1164 | 065G040210332K Y | 9JR6500000232 | CAP CHIP 0402 10N 50V X7R +/-10%     |
| C1162 | 065G040210332K Y | 9JR6500000232 | CAP CHIP 0402 10N 50V X7R +/-10%     |
| C1158 | 065G040210332K Y | 9JR6500000232 | CAP CHIP 0402 10N 50V X7R +/-10%     |
| C1156 | 065G040210332K Y | 9JR6500000232 | CAP CHIP 0402 10N 50V X7R +/-10%     |
| C1153 | 065G040210332K Y | 9JR6500000232 | CAP CHIP 0402 10N 50V X7R +/-10%     |
| C1013 | 065G040210332K Y | 9JR6500000232 | CAP CHIP 0402 10N 50V X7R +/-10%     |
| C1012 | 065G040210332K Y | 9JR6500000232 | CAP CHIP 0402 10N 50V X7R +/-10%     |
| C1011 | 065G040210332K Y | 9JR6500000232 | CAP CHIP 0402 10N 50V X7R +/-10%     |



[illegible]

|       |                  |               |                                     |
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| C669  | 065G040222031J 3 | 9JR6500000289 | CAP CHIP 0402 22P 50V NPO +/-5%     |
| C667  | 065G040222031J 3 | 9JR6500000289 | CAP CHIP 0402 22P 50V NPO +/-5%     |
| C628  | 065G040222031J 3 | 9JR6500000289 | CAP CHIP 0402 22P 50V NPO +/-5%     |
| C623  | 065G040222031J Y | 9JR6500000235 | CAP CHIP 0402 22P 50V NP0 +/-5%     |
| C626  | 065G040222031J Y | 9JR6500000235 | CAP CHIP 0402 22P 50V NP0 +/-5%     |
| C4259 | 065G0402224A5K 3 | 9JR6500001430 | CAP 0402 220N 10V X5R +/-10%        |
| C4262 | 065G0402224A5K 3 | 9JR6500001430 | CAP 0402 220N 10V X5R +/-10%        |
| C511  | 065G0402224A5K Y | 9JR6500000342 | CAP CHIP 0402 220N 10V X5R +/-10%   |
| C506  | 065G0402224A5K Y | 9JR6500000342 | CAP CHIP 0402 220N 10V X5R +/-10%   |
| C1238 | 065G040227031J Y | 9JR6500000236 | CAP CHIP 0402 27P 50V NP0 +/-5%     |
| C1239 | 065G040233031J Y | 9JR6500000237 | CAP CHIP 0402 33P 50V NP0 +/-5%     |
| C621  | 065G040233131J T | 9JR6500001431 | CAP CHIP 0402 330PF 50V J NPO       |
| C620  | 065G040233131J T | 9JR6500001431 | CAP CHIP 0402 330PF 50V J NPO       |
| C666  | 065G040233131J Y | 9JR6500001432 | 0402 330PF J 50V NPO                |
| C664  | 065G040233131J Y | 9JR6500001432 | 0402 330PF J 50V NPO                |
| C720  | 065G040233232K 3 | 9JR6500001433 | CAP CHIP 0402 3300PF 50V X7R +/-10% |
| C722  | 065G040233232K 3 | 9JR6500001433 | CAP CHIP 0402 3300PF 50V X7R +/-10% |
| C1300 | 065G040239031J T | 9JR6500001434 | CAP CHIP 0402 39PF 50V J NPO        |
| C1301 | 065G040239031J T | 9JR6500001434 | CAP CHIP 0402 39PF 50V J NPO        |
| C1009 | 065G040247031J Y | 9JR6500000203 | CAP 0402 47PF 5% 50V NP0            |
| C1014 | 065G040247031J Y | 9JR6500000203 | CAP 0402 47PF 5% 50V NP0            |
| C1016 | 065G040247031J Y | 9JR6500000203 | CAP 0402 47PF 5% 50V NP0            |
| C1010 | 065G040247312K T | 9JR6500001435 | CAP 0402 47NF 10% 16V X7R           |
| C1184 | 065G040247312K T | 9JR6500001435 | CAP 0402 47NF 10% 16V X7R           |
| C1305 | 065G040247312K T | 9JR6500001435 | CAP 0402 47NF 10% 16V X7R           |
| C4173 | 065G040247312K T | 9JR6500001435 | CAP 0402 47NF 10% 16V X7R           |
| C694  | 065G040247312K T | 9JR6500001435 | CAP 0402 47NF 10% 16V X7R           |
| C697  | 065G040247312K T | 9JR6500001435 | CAP 0402 47NF 10% 16V X7R           |
| C1306 | 065G0402474A5K T | 9JR6500001461 | CAP CHIP 0402 0.47UF 10V K X5R      |
| C1169 | 065G040250931C 3 | 9JR6500001436 | CAP CHIP 0402 5PF 50V NP0 +/-0.25PF |
| C1168 | 065G040250931C 3 | 9JR6500001436 | CAP CHIP 0402 5PF 50V NP0 +/-0.25PF |
| C1167 | 065G040250931C 3 | 9JR6500001436 | CAP CHIP 0402 5PF 50V NP0 +/-0.25PF |
| C1157 | 065G040250931C Y | 9JR6500000441 | CAP 0402 5PF 0.25PF 50V NP0         |
| C1154 | 065G040250931C Y | 9JR6500000441 | CAP 0402 5PF 0.25PF 50V NP0         |
| C1318 | 065G060310332K 3 | 9JR6500000248 | CAP CHIP 0603 10N 50V X7R +/-10%    |
| C1317 | 065G060310332K 3 | 9JR6500000248 | CAP CHIP 0603 10N 50V X7R +/-10%    |
| C1179 | 065G060310332K Y | 9JR6500000249 | CAP CHIP 0603 10N 50V X7R +/-10%    |
| C1181 | 065G060310332K Y | 9JR6500000249 | CAP CHIP 0603 10N 50V X7R +/-10%    |
| C1309 | 065G060310332K Y | 9JR6500000249 | CAP CHIP 0603 10N 50V X7R +/-10%    |
| C1313 | 065G060310332K Y | 9JR6500000249 | CAP CHIP 0603 10N 50V X7R +/-10%    |
| C716  | 065G060310432K Y | 9JR6500000251 | CAP 0603 100NF 10% 50V X7R          |
| C715  | 065G060310432K Y | 9JR6500000251 | CAP 0603 100NF 10% 50V X7R          |
| C655  | 065G060310432K Y | 9JR6500000251 | CAP 0603 100NF 10% 50V X7R          |
| C654  | 065G060310432K Y | 9JR6500000251 | CAP 0603 100NF 10% 50V X7R          |
| C601  | 065G060310432K Y | 9JR6500000251 | CAP 0603 100NF 10% 50V X7R          |
| C695  | 065G060310432K Y | 9JR6500000251 | CAP 0603 100NF 10% 50V X7R          |
| C689  | 065G060310512K 3 | 9JR6500000204 | CAP 0603 1UF 10% 16V X7R            |
| C617  | 065G060310512K 3 | 9JR6500000204 | CAP 0603 1UF 10% 16V X7R            |
| C610  | 065G060310512K 3 | 9JR6500000204 | CAP 0603 1UF 10% 16V X7R            |
| C4167 | 065G060310512K A | 9JR6500000492 | CAP 0603 1UF 10% 16V X7R            |
| C622  | 065G060310512K A | 9JR6500000492 | CAP 0603 1UF 10% 16V X7R            |
| C672  | 065G060310512K A | 9JR6500000492 | CAP 0603 1UF 10% 16V X7R            |
| C674  | 065G060310512K A | 9JR6500000492 | CAP 0603 1UF 10% 16V X7R            |
| C681  | 065G060310512K A | 9JR6500000492 | CAP 0603 1UF 10% 16V X7R            |
| C704  | 065G060310512K A | 9JR6500000492 | CAP 0603 1UF 10% 16V X7R            |
| C684  | 065G060310512K A | 9JR6500000492 | CAP 0603 1UF 10% 16V X7R            |
| C709  | 065G060310512K T | 9JR6500000253 | CAP 0603 1UF 10% 16V X7R            |

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| C753  | 065G060310512K T | 9JR6500000253 | CAP 0603 1UF 10% 16V X7R           |
| C757  | 065G060310512K T | 9JR6500000253 | CAP 0603 1UF 10% 16V X7R           |
| C703  | 065G060310512K T | 9JR6500000253 | CAP 0603 1UF 10% 16V X7R           |
| C504  | 065G060310512K T | 9JR6500000253 | CAP 0603 1UF 10% 16V X7R           |
| C502  | 065G060310512K T | 9JR6500000253 | CAP 0603 1UF 10% 16V X7R           |
| C4251 | 065G060310512K T | 9JR6500000253 | CAP 0603 1UF 10% 16V X7R           |
| C760  | 065G060310512K T | 9JR6500000253 | CAP 0603 1UF 10% 16V X7R           |
| C4208 | 065G060310512K T | 9JR6500000253 | CAP 0603 1UF 10% 16V X7R           |
| C4207 | 065G060310512K T | 9JR6500000253 | CAP 0603 1UF 10% 16V X7R           |
| C4206 | 065G060310512K T | 9JR6500000253 | CAP 0603 1UF 10% 16V X7R           |
| C4205 | 065G060310512K T | 9JR6500000253 | CAP 0603 1UF 10% 16V X7R           |
| C4204 | 065G060310512K T | 9JR6500000253 | CAP 0603 1UF 10% 16V X7R           |
| C1200 | 065G060310512K T | 9JR6500000253 | CAP 0603 1UF 10% 16V X7R           |
| C1151 | 065G060310512K T | 9JR6500000253 | CAP 0603 1UF 10% 16V X7R           |
| C1171 | 065G060310605M T | 9JR6500000466 | CAP 0603 10UF 20% 6.3V X5R         |
| C1177 | 065G060310605M T | 9JR6500000466 | CAP 0603 10UF 20% 6.3V X5R         |
| C1231 | 065G060310605M T | 9JR6500000466 | CAP 0603 10UF 20% 6.3V X5R         |
| C1234 | 065G060310605M T | 9JR6500000466 | CAP 0603 10UF 20% 6.3V X5R         |
| C4103 | 065G060310605M T | 9JR6500000466 | CAP 0603 10UF 20% 6.3V X5R         |
| C4104 | 065G060310605M T | 9JR6500000466 | CAP 0603 10UF 20% 6.3V X5R         |
| C701  | 065G060310605M T | 9JR6500000466 | CAP 0603 10UF 20% 6.3V X5R         |
| C1315 | 065G060322131J Y | 9JR6500000177 | CAP CHIP 0603 220P 50V NP0 +/-5%   |
| C1311 | 065G060322131J Y | 9JR6500000177 | CAP CHIP 0603 220P 50V NP0 +/-5%   |
| C1308 | 065G060322131J Y | 9JR6500000177 | CAP CHIP 0603 220P 50V NP0 +/-5%   |
| C679  | 065G060322232K Y | 9JR6500000258 | CAP CHIP 0603 2N2 50V X7R +/-10%   |
| C4255 | 065G0603225A5K 3 | 9JR6500001438 | CAP CHIP 0603 2.2UF K 10V X5R      |
| C625  | 065G0603225A5K 3 | 9JR6500001438 | CAP CHIP 0603 2.2UF K 10V X5R      |
| C4260 | 065G060327031J Y | 9JR6500000323 | CAP CHIP 0603 27P 50V NP0 +/-5%    |
| C4261 | 065G060327031J Y | 9JR6500000323 | CAP CHIP 0603 27P 50V NP0 +/-5%    |
| C1183 | 065G060333031J Y | 9JR6500000290 | CAP CHIP 0603 33P 50V NP0 +/-5%    |
| C699  | 065G060333332K Y | 9JR6500001439 | CAP CHIP 0603 33N 50V X7R +/-10%   |
| C691  | 065G060333332K Y | 9JR6500001439 | CAP CHIP 0603 33N 50V X7R +/-10%   |
| C685  | 065G060333332K Y | 9JR6500001439 | CAP CHIP 0603 33N 50V X7R +/-10%   |
| C683  | 065G060333332K Y | 9JR6500001439 | CAP CHIP 0603 33N 50V X7R +/-10%   |
| C1185 | 065G060347031J Y | 9JR6500000263 | CAP 0603 47PF 5% 50V NP0           |
| C663  | 065G060347031J Y | 9JR6500000263 | CAP 0603 47PF 5% 50V NP0           |
| C668  | 065G060347031J Y | 9JR6500000263 | CAP 0603 47PF 5% 50V NP0           |
| C1024 | 065G060347131J Y | 9JR6500000264 | CAP CHIP 0603 470P 50V NP0 +/-5%   |
| C1022 | 065G060347131J Y | 9JR6500000264 | CAP CHIP 0603 470P 50V NP0 +/-5%   |
| C1021 | 065G060347131J Y | 9JR6500000264 | CAP CHIP 0603 470P 50V NP0 +/-5%   |
| C1019 | 065G060347131J Y | 9JR6500000264 | CAP CHIP 0603 470P 50V NP0 +/-5%   |
| C690  | 065G060347232K A | 9JR6500000474 | CAP CHIP 0603 4.7NF K 50V X7R      |
| C693  | 065G060347232K A | 9JR6500000474 | CAP CHIP 0603 4.7NF K 50V X7R      |
| C1189 | 065G0603475A5K M | 9JR6500001440 | CAP CHIP 0603 4.7UF K 10V X5R      |
| C4161 | 065G0603475A5K T | 9JR6500000421 | CAP CHIP 0603 4.7UF K 10V X5R      |
| C4200 | 065G0603475A5K T | 9JR6500000421 | CAP CHIP 0603 4.7UF K 10V X5R      |
| C607  | 065G0603475A5K T | 9JR6500000421 | CAP CHIP 0603 4.7UF K 10V X5R      |
| C615  | 065G0603475A5K T | 9JR6500000421 | CAP CHIP 0603 4.7UF K 10V X5R      |
| C754  | 065G0603475A5K T | 9JR6500000421 | CAP CHIP 0603 4.7UF K 10V X5R      |
| C1323 | 065G060356031J Y | 9JR6500000518 | CAP CHIP 0603 56P 50V NP0 +/-5%    |
| C1324 | 065G060356031J Y | 9JR6500000518 | CAP CHIP 0603 56P 50V NP0 +/-5%    |
| C1307 | 065G060356931D Y | 9JR6500001441 | CAP CHIP 0603 5P6 50V NP0 +/-0.5PF |
| C1316 | 065G060356931D Y | 9JR6500001441 | CAP CHIP 0603 5P6 50V NP0 +/-0.5PF |
| C692  | 065G080510512K T | 9JR6500001445 | CAP CHIP 0805 1UF K 16V X7R        |
| C670  | 065G080510512K T | 9JR6500001445 | CAP CHIP 0805 1UF K 16V X7R        |
| C661  | 065G080510532K M | 9JR6500001447 | CAP 0805 1UF 10% 50V X7R           |
| C662  | 065G080510532K M | 9JR6500001447 | CAP 0805 1UF 10% 50V X7R           |

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| C678  | 065G080510532K M | 9JR6500001447 | CAP 0805 1UF 10% 50V X7R         |
| C698  | 065G080510532K M | 9JR6500001447 | CAP 0805 1UF 10% 50V X7R         |
| C769  | 065G080510615K 3 | 9JR6500001448 | CAP CHIP 0805 10U 16V X5R +/-10% |
| C762  | 065G080510615K 3 | 9JR6500001448 | CAP CHIP 0805 10U 16V X5R +/-10% |
| C761  | 065G080510615K 3 | 9JR6500001448 | CAP CHIP 0805 10U 16V X5R +/-10% |
| C708  | 065G080510615K 3 | 9JR6500001448 | CAP CHIP 0805 10U 16V X5R +/-10% |
| C409  | 065G080510615K 3 | 9JR6500001448 | CAP CHIP 0805 10U 16V X5R +/-10% |
| C1227 | 065G080510615K 3 | 9JR6500001448 | CAP CHIP 0805 10U 16V X5R +/-10% |
| C1225 | 065G080510615K 3 | 9JR6500001448 | CAP CHIP 0805 10U 16V X5R +/-10% |
| C611  | 065G080510615K T | 9JR6500000406 | CHIP 10UF 16V X5R 0805           |
| C612  | 065G080510615K T | 9JR6500000406 | CHIP 10UF 16V X5R 0805           |
| C613  | 065G080510615K T | 9JR6500000406 | CHIP 10UF 16V X5R 0805           |
| C614  | 065G080510615K T | 9JR6500000406 | CHIP 10UF 16V X5R 0805           |
| C616  | 065G080510615K T | 9JR6500000406 | CHIP 10UF 16V X5R 0805           |
| C618  | 065G080510615K T | 9JR6500000406 | CHIP 10UF 16V X5R 0805           |
| C619  | 065G080510615K T | 9JR6500000406 | CHIP 10UF 16V X5R 0805           |
| C624  | 065G080510615K T | 9JR6500000406 | CHIP 10UF 16V X5R 0805           |
| C650  | 065G080510615K T | 9JR6500000406 | CHIP 10UF 16V X5R 0805           |
| C682  | 065G080510615K T | 9JR6500000406 | CHIP 10UF 16V X5R 0805           |
| C687  | 065G080510615K T | 9JR6500000406 | CHIP 10UF 16V X5R 0805           |
| C1007 | 065G080510615K T | 9JR6500000406 | CHIP 10UF 16V X5R 0805           |
| C1008 | 065G080510615K T | 9JR6500000406 | CHIP 10UF 16V X5R 0805           |
| C1163 | 065G080510615K T | 9JR6500000406 | CHIP 10UF 16V X5R 0805           |
| C1165 | 065G080510615K T | 9JR6500000406 | CHIP 10UF 16V X5R 0805           |
| C1178 | 065G080510615K T | 9JR6500000406 | CHIP 10UF 16V X5R 0805           |
| C1180 | 065G080510615K T | 9JR6500000406 | CHIP 10UF 16V X5R 0805           |
| C4152 | 065G080510615K T | 9JR6500000406 | CHIP 10UF 16V X5R 0805           |
| C4163 | 065G080510615K T | 9JR6500000406 | CHIP 10UF 16V X5R 0805           |
| C4172 | 065G080510615K T | 9JR6500000406 | CHIP 10UF 16V X5R 0805           |
| C4203 | 065G080510615K T | 9JR6500000406 | CHIP 10UF 16V X5R 0805           |
| C605  | 065G080510615K T | 9JR6500000406 | CHIP 10UF 16V X5R 0805           |
| C1303 | 065G0805106A5K T | 9JR6500000424 | CHIP 10UF 10V X5R 0805           |
| C501  | 065G0805106A5K T | 9JR6500000424 | CHIP 10UF 10V X5R 0805           |
| C719  | 065G0805106A5K T | 9JR6500000424 | CHIP 10UF 10V X5R 0805           |
| C724  | 065G0805106A5K T | 9JR6500000424 | CHIP 10UF 10V X5R 0805           |
| C725  | 065G0805106A5K T | 9JR6500000424 | CHIP 10UF 10V X5R 0805           |
| C729  | 065G0805106A5K T | 9JR6500000424 | CHIP 10UF 10V X5R 0805           |
| C603  | 065G080547515K T | 9JR6500000447 | CAP CHIP 0805 4.7UF K 16V X5R    |
| C677  | 065G0805475A2K T | 9JR6500000295 | CAP CHIP 0805 4.7UF K 10V X7R    |
| C759  | 065G1206226A5K T | 9JR6500000429 | CAP CHIP1206 22UF K 10V X5R      |
| C758  | 065G1206226A5K T | 9JR6500000429 | CAP CHIP1206 22UF K 10V X5R      |
| C734  | 065G1206226A5K T | 9JR6500000429 | CAP CHIP1206 22UF K 10V X5R      |
| C732  | 065G1206226A5K T | 9JR6500000429 | CAP CHIP1206 22UF K 10V X5R      |
| C723  | 065G1206226A5K T | 9JR6500000429 | CAP CHIP1206 22UF K 10V X5R      |
| C721  | 065G1206226A5K T | 9JR6500000429 | CAP CHIP1206 22UF K 10V X5R      |
| C714  | 065G1206226A5K T | 9JR6500000429 | CAP CHIP1206 22UF K 10V X5R      |
| C713  | 065G1206226A5K T | 9JR6500000429 | CAP CHIP1206 22UF K 10V X5R      |
| C736  | 065G120647535K T | 9JR6500001456 | CAP 1206 4.7UF 10% 50V X5R       |
| C728  | 065G120647535K T | 9JR6500001456 | CAP 1206 4.7UF 10% 50V X5R       |
| C712  | 065G120647535K T | 9JR6500001456 | CAP 1206 4.7UF 10% 50V X5R       |
| C657  | 065G120647535K T | 9JR6500001456 | CAP 1206 4.7UF 10% 50V X5R       |
| C602  | 065G120647535K T | 9JR6500001456 | CAP 1206 4.7UF 10% 50V X5R       |
| C4191 | 067G 3112213CT   | 9JR6700000214 | EC SMD 220UF 16V HV 6.3*7.7      |
| C700  | 067G 3112214CT   | 9JR6700000223 | EC SMD 220UF 25V HV 8*10.5       |
| C656  | 067G 3112217CT   | 9JR6700000215 | EC SMD 220UF 20% 50V HV 10*10.5  |
| C4169 | 067G 3113311CT   | 9JR6700000242 | EC SMD 330UF 20% 6.3V 6.3*7.7    |
| C702  | 067G 3114713CT   | 9JR6700000344 | EC SMD 470UF 16V HV 8X10MM       |



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| C608   | 067G311C4704CT | 9JR6700000244 | EC SMD 47UF 20% 25V JV 6.3*7.7         |
| C752   | 067G311R1013CT | 9JR6700000245 | EC SMD 100UF 20% 16V ZV 6.3*5.5        |
| C405   | 067G311R1013CT | 9JR6700000245 | EC SMD 100UF 20% 16V ZV 6.3*5.5        |
| C730   | 067G311R2213CT | 9JR6700000246 | EC SMD 220UF 20% 16V ZV 6.3*7.7        |
| U409   | 070GHDCP500HDC | 9JR7000000003 | HDCP CODE                              |
| FB751  | 071G 56A221 TA | 9JR7100000039 | IND FXD 0805 EMI 100MHZ 220R R         |
| FB708  | 071G 56A221 TA | 9JR7100000039 | IND FXD 0805 EMI 100MHZ 220R R         |
| FB707  | 071G 56A221 TA | 9JR7100000039 | IND FXD 0805 EMI 100MHZ 220R R         |
| FB706  | 071G 56A221 TA | 9JR7100000039 | IND FXD 0805 EMI 100MHZ 220R R         |
| FB705  | 071G 56A221 TA | 9JR7100000039 | IND FXD 0805 EMI 100MHZ 220R R         |
| FB608  | 071G 56A221 TA | 9JR7100000039 | IND FXD 0805 EMI 100MHZ 220R R         |
| FB607  | 071G 56A221 TA | 9JR7100000039 | IND FXD 0805 EMI 100MHZ 220R R         |
| FB606  | 071G 56A221 TA | 9JR7100000039 | IND FXD 0805 EMI 100MHZ 220R R         |
| FB404  | 071G 56A221 TA | 9JR7100000039 | IND FXD 0805 EMI 100MHZ 220R R         |
| FB1006 | 071G 56A221 TA | 9JR7100000039 | IND FXD 0805 EMI 100MHZ 220R R         |
| FB702  | 071G 59A121 TA | 9JR7100000031 | CHIP BEAD 120R/3000MA HCB1608KF-121T30 |
| FB701  | 071G 59A121 TA | 9JR7100000031 | CHIP BEAD 120R/3000MA HCB1608KF-121T30 |
| FB505  | 071G 59A121 TA | 9JR7100000031 | CHIP BEAD 120R/3000MA HCB1608KF-121T30 |
| FB504  | 071G 59A121 TA | 9JR7100000031 | CHIP BEAD 120R/3000MA HCB1608KF-121T30 |
| FB406  | 071G 59A121 TA | 9JR7100000031 | CHIP BEAD 120R/3000MA HCB1608KF-121T30 |
| FB405  | 071G 59A121 TA | 9JR7100000031 | CHIP BEAD 120R/3000MA HCB1608KF-121T30 |
| FB1157 | 071G 59C601 TA | 9JR7100000032 | CHIP BEAD 600R/200MA FCM1608K-601T02   |
| FB1158 | 071G 59C601 TA | 9JR7100000032 | CHIP BEAD 600R/200MA FCM1608K-601T02   |
| FB4152 | 071G 59C601 TA | 9JR7100000032 | CHIP BEAD 600R/200MA FCM1608K-601T02   |
| FB1160 | 071G 59C800 M  | 9JR7100000103 | CHIP BEAD 80 OHM 0603 400MA            |
| FB1159 | 071G 59C800 M  | 9JR7100000103 | CHIP BEAD 80 OHM 0603 400MA            |
| FB1156 | 071G 59C800 M  | 9JR7100000103 | CHIP BEAD 80 OHM 0603 400MA            |
| FB1155 | 071G 59C800 M  | 9JR7100000103 | CHIP BEAD 80 OHM 0603 400MA            |
| FB1154 | 071G 59C800 M  | 9JR7100000103 | CHIP BEAD 80 OHM 0603 400MA            |
| FB1153 | 071G 59C800 M  | 9JR7100000103 | CHIP BEAD 80 OHM 0603 400MA            |
| FB1152 | 071G 59C800 M  | 9JR7100000103 | CHIP BEAD 80 OHM 0603 400MA            |
| FB1151 | 071G 59C800 M  | 9JR7100000103 | CHIP BEAD 80 OHM 0603 400MA            |
| FB1054 | 071G 59C800 M  | 9JR7100000103 | CHIP BEAD 80 OHM 0603 400MA            |
| FB1053 | 071G 59C800 M  | 9JR7100000103 | CHIP BEAD 80 OHM 0603 400MA            |
| FB1052 | 071G 59C800 M  | 9JR7100000103 | CHIP BEAD 80 OHM 0603 400MA            |
| FB4151 | 071G 59D121 TA | 9JR7100000033 | CHIP BEAD 120R/600MA FCM1608KF-121T06  |
| FB1034 | 071G 59D121 TA | 9JR7100000033 | CHIP BEAD 120R/600MA FCM1608KF-121T06  |
| FB1017 | 071G 59D121 TA | 9JR7100000033 | CHIP BEAD 120R/600MA FCM1608KF-121T06  |
| FB1016 | 071G 59D121 TA | 9JR7100000033 | CHIP BEAD 120R/600MA FCM1608KF-121T06  |
| FB1015 | 071G 59D121 TA | 9JR7100000033 | CHIP BEAD 120R/600MA FCM1608KF-121T06  |
| FB1014 | 071G 59D121 TA | 9JR7100000033 | CHIP BEAD 120R/600MA FCM1608KF-121T06  |
| FB1013 | 071G 59D121 TA | 9JR7100000033 | CHIP BEAD 120R/600MA FCM1608KF-121T06  |
| FB1012 | 071G 59D121 TA | 9JR7100000033 | CHIP BEAD 120R/600MA FCM1608KF-121T06  |
| FB501  | 071G 59S601 T  | 9JR7100000035 | CHIP BEAD 600R/500MA MMZ1608S601CT     |
| FB503  | 071G 59S601 T  | 9JR7100000035 | CHIP BEAD 600R/500MA MMZ1608S601CT     |
| L1051  | 073G 63128 T   | 9JR7300000113 | CHIP INDUCTOR 0.12UH 10% MLF1608DR12KT |
| L1053  | 073G 63128 T   | 9JR7300000113 | CHIP INDUCTOR 0.12UH 10% MLF1608DR12KT |
| L1001  | 073G 6318910T  | 9JR7300000159 | CHIP INDUCTOR 1U8 10% MLF1608A1R8KT    |
| L1002  | 073G 6318910T  | 9JR7300000159 | CHIP INDUCTOR 1U8 10% MLF1608A1R8KT    |
| L1050  | 073G 6322810T  | 9JR7300000108 | CHIP INDUCROR 0.22UF 10%               |
| L702   | 073G253S 96 M1 | 9JR7300000115 | SMD CHOKE 1.5UH 10% 0.015R 9A          |
| L701   | 073G253S 96 M1 | 9JR7300000115 | SMD CHOKE 1.5UH 10% 0.015R 9A          |
| CN506  | 088G 34021A VA | 9JR8800000175 | HDMI HEADER V/T 21P BLACK H=10.5 HF    |
| CN502  | 088G 34021A VA | 9JR8800000175 | HDMI HEADER V/T 21P BLACK H=10.5 HF    |
| D511   | 093G 60505     | 9JR9300000134 | SCHOTTKY BAT54C 0.2A 30V SOT-23        |
| D4050  | 093G 64 33     | 9JR9300000113 | SWITCHING BAV99 0.2A 85V SOT-23        |
| D4051  | 093G 64 33     | 9JR9300000113 | SWITCHING BAV99 0.2A 85V SOT-23        |

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| D4151  | 093G 64 33    | 9JR9300000113 | SWITCHING BAV99 0.2A 85V SOT-23 |
| D4152  | 093G 64 33    | 9JR9300000113 | SWITCHING BAV99 0.2A 85V SOT-23 |
| D4155  | 093G 64 33    | 9JR9300000113 | SWITCHING BAV99 0.2A 85V SOT-23 |
| X4150  | 093G 22S920 C | 9JR9300000184 | CRYSTAL 27MHZ 27M 30PPM 20PF    |
| X1001  | 093G 22S921 C | 9JR9300000125 | CRYSTAL 27MHZ 20P SMD-5.0X3.2   |
| ZD1164 | 093G 39S 34 T | 9JR9300000102 | UDZSNP5.6B ROHM                 |
| ZD1163 | 093G 39S 34 T | 9JR9300000102 | UDZSNP5.6B ROHM                 |
| ZD1162 | 093G 39S 34 T | 9JR9300000102 | UDZSNP5.6B ROHM                 |
| ZD1161 | 093G 39S 34 T | 9JR9300000102 | UDZSNP5.6B ROHM                 |
| ZD1160 | 093G 39S 34 T | 9JR9300000102 | UDZSNP5.6B ROHM                 |
| ZD1155 | 093G 39S 34 T | 9JR9300000102 | UDZSNP5.6B ROHM                 |
| ZD1154 | 093G 39S 34 T | 9JR9300000102 | UDZSNP5.6B ROHM                 |
| ZD1153 | 093G 39S 34 T | 9JR9300000102 | UDZSNP5.6B ROHM                 |
| ZD1152 | 093G 39S 34 T | 9JR9300000102 | UDZSNP5.6B ROHM                 |
| ZD1065 | 093G 39S 34 T | 9JR9300000102 | UDZSNP5.6B ROHM                 |
| ZD1066 | 093G 39S 34 T | 9JR9300000102 | UDZSNP5.6B ROHM                 |
| ZD1067 | 093G 39S 34 T | 9JR9300000102 | UDZSNP5.6B ROHM                 |
| ZD1068 | 093G 39S 34 T | 9JR9300000102 | UDZSNP5.6B ROHM                 |
| ZD1069 | 093G 39S 34 T | 9JR9300000102 | UDZSNP5.6B ROHM                 |
| ZD1070 | 093G 39S 34 T | 9JR9300000102 | UDZSNP5.6B ROHM                 |
| ZD1072 | 093G 39S 34 T | 9JR9300000102 | UDZSNP5.6B ROHM                 |
| ZD1150 | 093G 39S 34 T | 9JR9300000102 | UDZSNP5.6B ROHM                 |
| ZD1151 | 093G 39S 34 T | 9JR9300000102 | UDZSNP5.6B ROHM                 |
| ZD1071 | 093G 39S 40 T | 9JR9300000103 | RLZ 13B LLDS                    |
| D1054  | 093G 64S900 T | 9JR9300000107 | DIODE BAS316 SOD-323 PHILIPS    |
| D1055  | 093G 64S900 T | 9JR9300000107 | DIODE BAS316 SOD-323 PHILIPS    |
| D1056  | 093G 64S900 T | 9JR9300000107 | DIODE BAS316 SOD-323 PHILIPS    |
| D1057  | 093G 64S900 T | 9JR9300000107 | DIODE BAS316 SOD-323 PHILIPS    |
| D1058  | 093G 64S900 T | 9JR9300000107 | DIODE BAS316 SOD-323 PHILIPS    |
| D1059  | 093G 64S900 T | 9JR9300000107 | DIODE BAS316 SOD-323 PHILIPS    |
| D1159  | 093G 64S900 T | 9JR9300000107 | DIODE BAS316 SOD-323 PHILIPS    |
| D1160  | 093G 64S900 T | 9JR9300000107 | DIODE BAS316 SOD-323 PHILIPS    |
| D1161  | 093G 64S900 T | 9JR9300000107 | DIODE BAS316 SOD-323 PHILIPS    |
| D1162  | 093G 64S900 T | 9JR9300000107 | DIODE BAS316 SOD-323 PHILIPS    |
| D1163  | 093G 64S900 T | 9JR9300000107 | DIODE BAS316 SOD-323 PHILIPS    |
| D1164  | 093G 64S900 T | 9JR9300000107 | DIODE BAS316 SOD-323 PHILIPS    |
| D1165  | 093G 64S900 T | 9JR9300000107 | DIODE BAS316 SOD-323 PHILIPS    |
| D502   | 093G 64S900 T | 9JR9300000107 | DIODE BAS316 SOD-323 PHILIPS    |
| D506   | 093G 64S900 T | 9JR9300000107 | DIODE BAS316 SOD-323 PHILIPS    |
| D507   | 093G 64S900 T | 9JR9300000107 | DIODE BAS316 SOD-323 PHILIPS    |
| D509   | 093G 64S900 T | 9JR9300000107 | DIODE BAS316 SOD-323 PHILIPS    |
| D510   | 093G 64S900 T | 9JR9300000107 | DIODE BAS316 SOD-323 PHILIPS    |
| D601   | 093G 64S900 T | 9JR9300000107 | DIODE BAS316 SOD-323 PHILIPS    |
| D604   | 093G 64S900 T | 9JR9300000107 | DIODE BAS316 SOD-323 PHILIPS    |
| D605   | 093G 64S900 T | 9JR9300000107 | DIODE BAS316 SOD-323 PHILIPS    |
| D606   | 093G 64S900 T | 9JR9300000107 | DIODE BAS316 SOD-323 PHILIPS    |
| D1060  | 093G 64S900 T | 9JR9300000107 | DIODE BAS316 SOD-323 PHILIPS    |
| D1061  | 093G 64S900 T | 9JR9300000107 | DIODE BAS316 SOD-323 PHILIPS    |
| D1062  | 093G 64S900 T | 9JR9300000107 | DIODE BAS316 SOD-323 PHILIPS    |
| D1063  | 093G 64S900 T | 9JR9300000107 | DIODE BAS316 SOD-323 PHILIPS    |
| D1064  | 093G 64S900 T | 9JR9300000107 | DIODE BAS316 SOD-323 PHILIPS    |
| D1065  | 093G 64S900 T | 9JR9300000107 | DIODE BAS316 SOD-323 PHILIPS    |
| D1066  | 093G 64S900 T | 9JR9300000107 | DIODE BAS316 SOD-323 PHILIPS    |
| D1150  | 093G 64S900 T | 9JR9300000107 | DIODE BAS316 SOD-323 PHILIPS    |
| D1151  | 093G 64S900 T | 9JR9300000107 | DIODE BAS316 SOD-323 PHILIPS    |
| D1152  | 093G 64S900 T | 9JR9300000107 | DIODE BAS316 SOD-323 PHILIPS    |
| D1153  | 093G 64S900 T | 9JR9300000107 | DIODE BAS316 SOD-323 PHILIPS    |

|        |                    |               |                                         |
|--------|--------------------|---------------|-----------------------------------------|
| D1154  | 093G 64S900 T      | 9JR9300000107 | DIODE BAS316 SOD-323 PHILIPS            |
| D1155  | 093G 64S900 T      | 9JR9300000107 | DIODE BAS316 SOD-323 PHILIPS            |
| D1156  | 093G 64S900 T      | 9JR9300000107 | DIODE BAS316 SOD-323 PHILIPS            |
| D1158  | 093G 64S900 T      | 9JR9300000107 | DIODE BAS316 SOD-323 PHILIPS            |
| D1157  | 093G 64S900 T      | 9JR9300000107 | DIODE BAS316 SOD-323 PHILIPS            |
| E715   | 715G4504M2A000005B | 9JR7150000004 | MAIN BOARD PCB                          |
| E715   | 715G4504M2A000005N | 9JR7150000005 | MAIN BOARD PCB                          |
| E715   | 715G4504M2A000005X | 9JR7150000003 | MAIN BOARD PCB                          |
|        | Q45G 99606 25 ESD  | 9JR4500000128 | INSULATING PE BAG                       |
|        | 705TQBSCJ64001     | 9JR7050001011 | POWER BOARD ASS'Y                       |
| M00105 | 0M1G1730 8120 RA   | 9JR0100000797 | SCREW 3X8                               |
| M00105 | 0M1G1730 8120 XL   | 9JR0100000798 | SCREW 3X8                               |
|        | P15T139810100000YF | 9JR1500000080 | BRACKET _POWER_SUPPORT                  |
|        | PLTV1L644XAE7      | 9JR9900000551 | POWER BOARD                             |
|        | 040G 45762412B     | 9JR4000000645 | CBPC LABEL                              |
| GND1   | 009G6005 1         | 9JR0900000003 | GND TERMINAL                            |
| GND6   | 009G6005 1         | 9JR0900000003 | GND TERMINAL                            |
| GND10  | 009G6005 1         | 9JR0900000003 | GND TERMINAL                            |
| GND11  | 009G6005 1         | 9JR0900000003 | GND TERMINAL                            |
| GND12  | 009G6005 1         | 9JR0900000003 | GND TERMINAL                            |
| GND13  | 009G6005 1         | 9JR0900000003 | GND TERMINAL                            |
| CN8101 | 033G3802 12 H X    | 9JR3300000109 | WAFER 12P 2.0MM H W2011-12RVA-S01       |
| IC9302 | 056G 139 3B        | 9JR5600000083 | PC123Y82FZOF SHARP                      |
| IC9104 | 056G 139 3B        | 9JR5600000083 | PC123Y82FZOF SHARP                      |
| IC9101 | 056G 139 3B        | 9JR5600000083 | PC123Y82FZOF SHARP                      |
| IC9301 | 056G 379121        | 9JR5600000310 | IC STR- A6069H DIP-8                    |
| RV9901 | 061G 46561 WB      | 9JR6100000963 | VARISTOR 560V 10% 14                    |
| RV9903 | 061G 46561 WB      | 9JR6100000963 | VARISTOR 560V 10% 14                    |
| NR9901 | 061G 58259MYW 6A   | 9JR6100002362 | NTCR 2.5R 20% 3.1W                      |
| NR9902 | 061G 58259MYW 6A   | 9JR6100002362 | NTCR 2.5R 20% 3.1W                      |
| R8116  | 061G3SWJ50759B SY  | 9JR6100002413 | RST WD 0.05R 5% 3W                      |
| C9901  | 063G107K224AUZ     | 9JR6300000032 | CAP X2 220NF 10% 305V                   |
| C9902  | 063G107K224AUZ     | 9JR6300000032 | CAP X2 220NF 10% 305V                   |
| C9906  | 067G 42Z47015K     | 9JR7100000080 | EC 47UF 20% 450V LF 10*50               |
| C9907  | 067G 42Z47015K     | 9JR7100000080 | EC 47UF 20% 450V LF 10*50               |
| C9909  | 067G 42Z47015K     | 9JR7100000080 | EC 47UF 20% 450V LF 10*50               |
| C9105  | 067G 5154716KZ     | 9JR6700000354 | EC 470UF 20% 35V EV1V471MLT0820F5R      |
| C9106  | 067G 5154716KZ     | 9JR6700000354 | EC 470UF 20% 35V EV1V471MLT0820F5R      |
| C8132  | 067G515Z221 9K     | 9JR6700000356 | EC 220UF 20% 100V 10*35 5000 HR         |
| C9104  | 067G515Z561 6K     | 9JR6700000357 | EC 560UF 20% 35V EV1V561MLT0825F5R      |
| C9109  | 067G515Z561 6K     | 9JR6700000357 | EC 560UF 20% 35V EV1V561MLT0825F5R      |
| FB9901 | 071G 55 21         | 9JR7100000043 | FERRITE BEAD                            |
| FB9902 | 071G 55 21         | 9JR7100000043 | FERRITE BEAD                            |
| FB9906 | 071G 55906 H       | 9JR7100000094 | BEAD 6.0*9.2 510R MIN BF-I60090C-794    |
| L8101  | 073G 174264 CP     | 9JR7300000163 | BOOST CHOKE 25UH 10% EQ25 L020398-6     |
| L9901  | 073G 174270 X      | 9JR7300000164 | LINE FILTER 12MH MIN 3LFT18106-123M-1   |
| L9902  | 073G 174270 X      | 9JR7300000164 | LINE FILTER 12MH MIN 3LFT18106-123M-1   |
| T9101  | 080GL32P 90 F      | 9JR8000000032 | X'FMR 370U 10% 10UH EFD43               |
| T9101  | 080GL32P 90 H      | 9JR8000000033 | X'FMR 370UH 10% 10UH EFD43 BCK-14323-HA |
| EF9901 | 084G 34 14         | 9JR8400000019 | FUSE CLIP 5*20MM                        |
| EF9902 | 084G 34 14         | 9JR8400000019 | FUSE CLIP 5*20MM                        |
| F9901  | 084G 41 6 C        | 9JR8400000020 | FUSE 6.3A 250V UDA6.30(PF)              |
| F9902  | 084G 41 6 C        | 9JR8400000020 | FUSE 6.3A 250V UDA6.30(PF)              |
| BD9901 | 093G 50460939      | 9JR9300000410 | BRIDGE KBJ608G-FU 6A 800V KBJ           |
| D8102  | 093G 60924         | 9JR9300000414 | DIODE SR510-22 DO-201AD                 |
| D8102  | 093G 60988         | 9JR9300000415 | SCHOTTKY SB5100-E 5A 100V DO-201AD      |
|        | 0Q1G 340 8140      | 9JR0100000803 | SCREW 4.0X8.0                           |

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| L9301  | 373G0253247X00 | 9JR3730000001 | CHOKE COIL 3UH 15% DR8*8 5A           |
| L9102  | 373G0253247X00 | 9JR3730000001 | CHOKE COIL 3UH 15% DR8*8 5A           |
| L9101  | 373G0253247X00 | 9JR3730000001 | CHOKE COIL 3UH 15% DR8*8 5A           |
| L8102  | 373G0253247X00 | 9JR3730000001 | CHOKE COIL 3UH 15% DR8*8 5A           |
| T9301  | 380GL52P063H00 | 9JR3800000002 | X'FMR 800UH 10% 50UH EFD2328          |
| CN9901 | 387G050147F0ST | 9JR3870000001 | AC SOKET R/A 2P 12DEGREE H=12.81      |
| CN9304 | 395G825H13XM02 | 9JR3950000009 | HARNESS 13P(2506)-13P(SCNW) 260MM     |
|        | 705TQB57040    | 9JR7050001007 | Q9101 ASS'Y                           |
| Q9101  | 057G 611908    | 9JR5700000177 | MOSFET TK6A65D (STA4,Q),E'Q,M) SC-67  |
|        | 0M1G1730 8120  | 9JR0100000796 | SCREW 3X8                             |
| HS9101 | Q90T0236 3     | 9JR9000000025 | HEAT SINK                             |
|        | 705TQB93051    | 9JR7050001008 | D9302 ASS'Y                           |
| D9302  | 093G1506 2     | 9JR9300000408 | SCHOTTKY FMW-2156 15A 60V TO-220      |
|        | 0M1G1730 8120  | 9JR0100000796 | SCREW 3X8                             |
| HS9302 | Q90T0236 1     | 9JR9000000023 | HEAT SINK                             |
|        | 705TQB93100    | 9JR7050001009 | D9102/D9103 ASS'Y                     |
| D9103  | 093G 52 57     | 9JR9300000411 | RECTIFIER FMXA-2202S 20A 200V TO-220F |
| D9102  | 093G 60500     | 9JR9300000413 | FMEN210A TO-220 SANKEN                |
|        | 0M1G1730 8120  | 9JR0100000796 | SCREW 3X8                             |
| HS9102 | Q90T0236 3     | 9JR9000000025 | HEAT SINK                             |
|        | 709T51940QM002 | 9JR7090000005 | PLTV 耗材                               |
|        | 051G 6 4505    | 9JR5100000003 | GLUE_RTV                              |
| Y05501 | 055G 23524     | 9JR5500000001 | WELDING FLUX WITHOUT PB               |
|        | Q55G 100625    | 9JR5500000006 | TIN STICK_LOW ARGENTUM                |
| IC9303 | 056G 158501    | 9JR5600000234 | IC AS431AN-E1 SOT23                   |
| IC9103 | 056G 379175    | 9JR5600000319 | IC LD7523GS SOP-8                     |
| IC8107 | 056G 700 23    | 9JR5600000320 | TEST ONLY LED DRIVER PF7900S SOP-8    |
| IC8101 | 056G 700 32    | 9JR5600000321 | LED DRIVER PF7700S SOP-8              |
| IC8103 | 056G 700 32    | 9JR5600000321 | LED DRIVER PF7700S SOP-8              |
| IC8104 | 056G 700 32    | 9JR5600000321 | LED DRIVER PF7700S SOP-8              |
| IC8106 | 056G 700 32    | 9JR5600000321 | LED DRIVER PF7700S SOP-8              |
| Q9102  | 057G 417511    | 9JR5700000001 | MMBT3904                              |
| Q9110  | 057G 417512    | 9JR5700000069 | MMBT3906                              |
| Q9106  | 057G 417907 T  | 9JR5700000173 | TRA PMBT3906 PNP -200MA/-40V SOT-23   |
| Q9111  | 057G 419912 T  | 9JR5700000174 | TRANSISTOR 2SD1624T-TD-E PCP          |
| Q9103  | 057G 419912 T  | 9JR5700000174 | TRANSISTOR 2SD1624T-TD-E PCP          |
| Q8101  | 057G 600969    | 9JR5700000176 | MOSFET AOD4454 20A 150V TO-252        |
| Q9301  | 057G 763 62    | 9JR5700000085 | FET 2N7002K 300MA/60V SOT-23          |
| Q9104  | 057G 763 62    | 9JR5700000085 | FET 2N7002K 300MA/60V SOT-23          |
| R9129  | 061G0805000 JT | 9JR6100000695 | RST 0805 0.05R MAX 1/8W               |
| R9131  | 061G0805000 JT | 9JR6100000695 | RST 0805 0.05R MAX 1/8W               |
| R9324  | 061G0805000 JT | 9JR6100000695 | RST 0805 0.05R MAX 1/8W               |
| R8131  | 061G0805000 JT | 9JR6100000695 | RST 0805 0.05R MAX 1/8W               |
| R8131  | 061G0805000 JY | 9JR6100001124 | RST CHIPR MAX 0R05 OHM 1/8W YAGEO     |
| R9129  | 061G0805000 JY | 9JR6100001124 | RST CHIPR MAX 0R05 OHM 1/8W YAGEO     |
| R9131  | 061G0805000 JY | 9JR6100001124 | RST CHIPR MAX 0R05 OHM 1/8W YAGEO     |
| R9324  | 061G0805000 JY | 9JR6100001124 | RST CHIPR MAX 0R05 OHM 1/8W YAGEO     |
| R9127  | 061G0805101 JT | 9JR6100000990 | RST CHIP 100R 1/8W 5% TZAI YUAN       |
| R9127  | 061G0805101 JY | 9JR6100001127 | RST CHIPR 100OHM +- 5% 1/8W YEGAO     |
| R9172  | 061G0805102 JF | 9JR6100002366 | RST CHIPR 1K OHM +-5% 1/8W FENGHUA    |
| R9167  | 061G0805102 JT | 9JR6100000991 | RST CHIPR 1K OHM +- 5% 1/8W TZAI YUAN |
| R9168  | 061G0805102 JT | 9JR6100000991 | RST CHIPR 1K OHM +- 5% 1/8W TZAI YUAN |
| R9312  | 061G0805102 JT | 9JR6100000991 | RST CHIPR 1K OHM +- 5% 1/8W TZAI YUAN |
| R9314  | 061G0805102 JT | 9JR6100000991 | RST CHIPR 1K OHM +- 5% 1/8W TZAI YUAN |
| R9167  | 061G0805102 JY | 9JR6100001128 | RST CHIPR 1K OHM 5% 1/8W YAGEO        |
| R9168  | 061G0805102 JY | 9JR6100001128 | RST CHIPR 1K OHM 5% 1/8W YAGEO        |
| R9172  | 061G0805102 JY | 9JR6100001128 | RST CHIPR 1K OHM 5% 1/8W YAGEO        |

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| R9314 | 061G0805102 JY | 9JR6100001128 | RST CHIPR 1K OHM 5% 1/8W YAGEO          |
| R9312 | 061G0805102 JY | 9JR6100001128 | RST CHIPR 1K OHM 5% 1/8W YAGEO          |
| R9155 | 061G0805103 JI | 9JR6100001250 | RST 0805 10K 5% 1/8W                    |
| R9320 | 061G0805103 JT | 9JR6100000895 | RST 0805 10K 5% 1/8W                    |
| R9169 | 061G0805103 JT | 9JR6100000895 | RST 0805 10K 5% 1/8W                    |
| R9134 | 061G0805103 JT | 9JR6100000895 | RST 0805 10K 5% 1/8W                    |
| R9122 | 061G0805103 JT | 9JR6100000895 | RST 0805 10K 5% 1/8W                    |
| R9121 | 061G0805103 JT | 9JR6100000895 | RST 0805 10K 5% 1/8W                    |
| R9111 | 061G0805103 JT | 9JR6100000895 | RST 0805 10K 5% 1/8W                    |
| R9110 | 061G0805103 JT | 9JR6100000895 | RST 0805 10K 5% 1/8W                    |
| R8123 | 061G0805103 JT | 9JR6100000895 | RST 0805 10K 5% 1/8W                    |
| R9320 | 061G0805103 JY | 9JR6100001129 | RST CHIPR 10KOHM +-5% 1/8W YAGEO        |
| R9169 | 061G0805103 JY | 9JR6100001129 | RST CHIPR 10KOHM +-5% 1/8W YAGEO        |
| R9155 | 061G0805103 JY | 9JR6100001129 | RST CHIPR 10KOHM +-5% 1/8W YAGEO        |
| R9134 | 061G0805103 JY | 9JR6100001129 | RST CHIPR 10KOHM +-5% 1/8W YAGEO        |
| R9122 | 061G0805103 JY | 9JR6100001129 | RST CHIPR 10KOHM +-5% 1/8W YAGEO        |
| R9121 | 061G0805103 JY | 9JR6100001129 | RST CHIPR 10KOHM +-5% 1/8W YAGEO        |
| R9111 | 061G0805103 JY | 9JR6100001129 | RST CHIPR 10KOHM +-5% 1/8W YAGEO        |
| R9110 | 061G0805103 JY | 9JR6100001129 | RST CHIPR 10KOHM +-5% 1/8W YAGEO        |
| R8123 | 061G0805103 JY | 9JR6100001129 | RST CHIPR 10KOHM +-5% 1/8W YAGEO        |
| R9332 | 061G0805104 JT | 9JR6100000992 | RST CHIPR 100KOHM +- 5% 1/8W TZAI YUAN  |
| R9125 | 061G0805104 JT | 9JR6100000992 | RST CHIPR 100KOHM +- 5% 1/8W TZAI YUAN  |
| R9120 | 061G0805104 JT | 9JR6100000992 | RST CHIPR 100KOHM +- 5% 1/8W TZAI YUAN  |
| R8118 | 061G0805104 JT | 9JR6100000992 | RST CHIPR 100KOHM +- 5% 1/8W TZAI YUAN  |
| R8118 | 061G0805104 JY | 9JR6100001251 | RST CHIPR 100KOHM 1/8W YAGEO            |
| R9120 | 061G0805104 JY | 9JR6100001251 | RST CHIPR 100KOHM 1/8W YAGEO            |
| R9125 | 061G0805104 JY | 9JR6100001251 | RST CHIPR 100KOHM 1/8W YAGEO            |
| R9332 | 061G0805104 JY | 9JR6100001251 | RST CHIPR 100KOHM 1/8W YAGEO            |
| R9126 | 061G08051100FT | 9JR6100002367 | RST 0805 110R 1% 1/8W                   |
| R8107 | 061G08051152FI | 9JR6100002368 | RST 0805 11.5K 1% 1/8W TA-I             |
| R8108 | 061G08051152FI | 9JR6100002368 | RST 0805 11.5K 1% 1/8W TA-I             |
| R8110 | 061G08051152FI | 9JR6100002368 | RST 0805 11.5K 1% 1/8W TA-I             |
| R8111 | 061G08051152FI | 9JR6100002368 | RST 0805 11.5K 1% 1/8W TA-I             |
| R8111 | 061G08051152FT | 9JR6100002369 | RST CHIPR 11.5KOHM +- 1% 1/8W TZAI YUAN |
| R8110 | 061G08051152FT | 9JR6100002369 | RST CHIPR 11.5KOHM +- 1% 1/8W TZAI YUAN |
| R8108 | 061G08051152FT | 9JR6100002369 | RST CHIPR 11.5KOHM +- 1% 1/8W TZAI YUAN |
| R8107 | 061G08051152FT | 9JR6100002369 | RST CHIPR 11.5KOHM +- 1% 1/8W TZAI YUAN |
| R9116 | 061G08051203FI | 9JR6100002370 | RST 0805 120K 1% 1/8W                   |
| R9116 | 061G08051203FT | 9JR6100002371 | RST CHIPR 120KOHM +- 1% 1/8W TZAI YUAN  |
| R9117 | 061G08051801FT | 9JR6100001009 | RST CHIP R 1K8 +/-1% 1/8W               |
| R9117 | 061G08051801FY | 9JR6100002372 | RST CHIP R 1K8 +/-1% 1/8W               |
| R8127 | 061G08051803FT | 9JR6100002373 | RST CHIPR 180K +-1% 1/8W TZAI YUAN      |
| R8127 | 061G08051803FY | 9JR6100002374 | RST CHIPR 180KOHM +-1% 1/8W YAGEO       |
| R9150 | 061G08052001FT | 9JR6100000648 | RST CHIP 2K 1/8W 1%                     |
| R9150 | 061G08052001FY | 9JR6100001132 | RST CHIP 2K 1/8W 1%                     |
| R9123 | 061G0805202 JT | 9JR6100001282 | RST CHIP 2K 1/8W 5% TZAI YUAN           |
| R9123 | 061G0805202 JY | 9JR6100001133 | RST CHIPR 2K 5% 0805 YAGEO              |
| R9133 | 061G0805203 JT | 9JR6100001010 | RST CHIPR 20K +-5% 1/8W TZAI YUAN       |
| R9133 | 061G0805203 JY | 9JR6100002375 | RST 0805 20K 5% 1/8W                    |
| R9109 | 061G0805220 JT | 9JR6100001012 | RST CHIPR 22OHM +-5% 1/8W TZAI YUAN     |
| R8124 | 061G0805220 JT | 9JR6100001012 | RST CHIPR 22OHM +-5% 1/8W TZAI YUAN     |
| R8124 | 061G0805220 JY | 9JR6100002376 | RST CHIPR 22R +-5% 1/8W YAGEO           |
| R9109 | 061G0805220 JY | 9JR6100002376 | RST CHIPR 22R +-5% 1/8W YAGEO           |
| R9307 | 061G08052200FI | 9JR6100002377 | RST 0805 220R 1% 1/8W TA-I              |
| R9307 | 061G08052200FT | 9JR6100002378 | RST 0805 220R 1% 1/8W TZAI YUAN         |
| R8125 | 061G0805229 JI | 9JR6100002379 | RST 2.2 OHM 5% 1/8W TA-I                |
| R8125 | 061G0805229 JT | 9JR6100002380 | RST CHIPR 2R2 +-5% 1/8W TZAI YUAN       |

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| R9311 | 061G08052401FT | 9JR6100000308 | RST CHIP R 2K4 +/-1% 1/8W             |
| R9311 | 061G08052401FY | 9JR6100000509 | RST CHIP 2K4 1/8W 1%                  |
| R9114 | 061G08053001FT | 9JR6100002381 | RST CHIP R 3K 1/8W +/-1%              |
| R9176 | 061G08053001FT | 9JR6100002381 | RST CHIP R 3K 1/8W +/-1%              |
| R9114 | 061G08053001FY | 9JR6100002382 | RST CHIP R 3K 1/8W +/-1%              |
| R9176 | 061G08053001FY | 9JR6100002382 | RST CHIP R 3K 1/8W +/-1%              |
| R9316 | 061G08053601FT | 9JR6100001038 | RST CHIP 3K6 1/8W 1%                  |
| R9316 | 061G08053601FY | 9JR6100001259 | RST CHIP 3K6 1/8W 1%                  |
| R9115 | 061G0805471 JT | 9JR6100002323 | RST CHIPR 470OHM +-5% 1/8W TZAI YUAN  |
| R9115 | 061G0805471 JY | 9JR6100001141 | RST CHIPR 470OHM +-5% 1/8W YAGEO      |
| R9315 | 061G0805475 JT | 9JR6100001051 | RST CHIP 4.7M 5% 1/8W                 |
| R9315 | 061G0805475 JY | 9JR6100002383 | RST CHIPR 4M7 +-5% 1/8W YAGEO         |
| R9101 | 061G08055101FI | 9JR6100002384 | RST CHIPR 5.1 KOHM +-1% 1/8W 0805     |
| R9101 | 061G08055101FT | 9JR6100002385 | RST CHIP 5K1 1/8W 1%                  |
| R9318 | 061G08055601FT | 9JR6100001244 | RST CHIPR 5K6 +-1% 1/8W TZAI YUAN     |
| R9318 | 061G08055601FY | 9JR6100001143 | RST CHIPR 5K6 +-1% 1/8W YAGEO         |
| R9317 | 061G08055603FT | 9JR6100002386 | RST CHIP 560K 1/8W 1%                 |
| R9317 | 061G08055603FY | 9JR6100002387 | RST CHIP 560K 1/8W 1%                 |
| R8113 | 061G08056202FT | 9JR6100002388 | RST CHIP 62K 1/8W 1%                  |
| R8113 | 061G08056202FY | 9JR6100002389 | RST CHIP 62K 1/8W 1%                  |
| R8114 | 061G08056203FT | 9JR6100002390 | RST CHIP 620K 1/8W 1%                 |
| R8114 | 061G08056203FY | 9JR6100002391 | RST CHIP 620K 1/8W 1%                 |
| R8117 | 061G08057503FT | 9JR6100002392 | RST 0805 750K 1% 1/8W                 |
| R8117 | 061G08057503FY | 9JR6100002393 | RST 0805 750K 1% 1/8W                 |
| R8115 | 061G08058203FT | 9JR6100002394 | RST 0805 820K 1% 1/8W                 |
| R8115 | 061G08058203FY | 9JR6100002395 | RST CHIP 820K 1/8W 1%                 |
| R9118 | 061G08059101FT | 9JR6100002396 | RST CHIP 9K1 1/8W 1%                  |
| R9118 | 061G08059101FY | 9JR6100002397 | RST CHIP 9K1 1/8W 1%                  |
| R8119 | 061G1206000 JT | 9JR6100000662 | RST CHIPR MAX0R05 1/4W TZAI YUAN      |
| RJ901 | 061G1206000 JT | 9JR6100000662 | RST CHIPR MAX0R05 1/4W TZAI YUAN      |
| RJ902 | 061G1206000 JT | 9JR6100000662 | RST CHIPR MAX0R05 1/4W TZAI YUAN      |
| RJ903 | 061G1206000 JT | 9JR6100000662 | RST CHIPR MAX0R05 1/4W TZAI YUAN      |
| RJ919 | 061G1206000 JT | 9JR6100000662 | RST CHIPR MAX0R05 1/4W TZAI YUAN      |
| RJ917 | 061G1206000 JT | 9JR6100000662 | RST CHIPR MAX0R05 1/4W TZAI YUAN      |
| RJ915 | 061G1206000 JT | 9JR6100000662 | RST CHIPR MAX0R05 1/4W TZAI YUAN      |
| RJ914 | 061G1206000 JT | 9JR6100000662 | RST CHIPR MAX0R05 1/4W TZAI YUAN      |
| RJ913 | 061G1206000 JT | 9JR6100000662 | RST CHIPR MAX0R05 1/4W TZAI YUAN      |
| RJ909 | 061G1206000 JT | 9JR6100000662 | RST CHIPR MAX0R05 1/4W TZAI YUAN      |
| RJ908 | 061G1206000 JT | 9JR6100000662 | RST CHIPR MAX0R05 1/4W TZAI YUAN      |
| RJ907 | 061G1206000 JT | 9JR6100000662 | RST CHIPR MAX0R05 1/4W TZAI YUAN      |
| RJ905 | 061G1206000 JT | 9JR6100000662 | RST CHIPR MAX0R05 1/4W TZAI YUAN      |
| RJ904 | 061G1206000 JT | 9JR6100000662 | RST CHIPR MAX0R05 1/4W TZAI YUAN      |
| RJ908 | 061G1206000 JY | 9JR6100002398 | RST CHIPR MAX0R05 1/4W YAGEO          |
| RJ909 | 061G1206000 JY | 9JR6100002398 | RST CHIPR MAX0R05 1/4W YAGEO          |
| RJ913 | 061G1206000 JY | 9JR6100002398 | RST CHIPR MAX0R05 1/4W YAGEO          |
| RJ914 | 061G1206000 JY | 9JR6100002398 | RST CHIPR MAX0R05 1/4W YAGEO          |
| RJ915 | 061G1206000 JY | 9JR6100002398 | RST CHIPR MAX0R05 1/4W YAGEO          |
| RJ917 | 061G1206000 JY | 9JR6100002398 | RST CHIPR MAX0R05 1/4W YAGEO          |
| RJ919 | 061G1206000 JY | 9JR6100002398 | RST CHIPR MAX0R05 1/4W YAGEO          |
| RJ907 | 061G1206000 JY | 9JR6100002398 | RST CHIPR MAX0R05 1/4W YAGEO          |
| RJ905 | 061G1206000 JY | 9JR6100002398 | RST CHIPR MAX0R05 1/4W YAGEO          |
| RJ904 | 061G1206000 JY | 9JR6100002398 | RST CHIPR MAX0R05 1/4W YAGEO          |
| RJ903 | 061G1206000 JY | 9JR6100002398 | RST CHIPR MAX0R05 1/4W YAGEO          |
| RJ902 | 061G1206000 JY | 9JR6100002398 | RST CHIPR MAX0R05 1/4W YAGEO          |
| RJ901 | 061G1206000 JY | 9JR6100002398 | RST CHIPR MAX0R05 1/4W YAGEO          |
| R8119 | 061G1206000 JY | 9JR6100002398 | RST CHIPR MAX0R05 1/4W YAGEO          |
| R9105 | 061G1206101 JT | 9JR6100001061 | RST CHIPR 100 OHM +-5% 1/4W TZAI YUAN |

|       |                |               |                                       |
|-------|----------------|---------------|---------------------------------------|
| R9104 | 061G1206101 JT | 9JR6100001061 | RST CHIPR 100 OHM +-5% 1/4W TZAI YUAN |
| R9103 | 061G1206101 JT | 9JR6100001061 | RST CHIPR 100 OHM +-5% 1/4W TZAI YUAN |
| R9103 | 061G1206101 JY | 9JR6100001146 | RST CHIPR 100R +-5% 1/4W YAGEO        |
| R9104 | 061G1206101 JY | 9JR6100001146 | RST CHIPR 100R +-5% 1/4W YAGEO        |
| R9105 | 061G1206101 JY | 9JR6100001146 | RST CHIPR 100R +-5% 1/4W YAGEO        |
| R9130 | 061G1206103 JT | 9JR6100002399 | RST CHIPR 10KOHM +-5% 1/4W TZAI YUAN  |
| R9309 | 061G1206103 JT | 9JR6100002399 | RST CHIPR 10KOHM +-5% 1/4W TZAI YUAN  |
| R9130 | 061G1206103 JY | 9JR6100002400 | RST CHIPR 10K +-5% 1/4W YAGEO         |
| R9309 | 061G1206103 JY | 9JR6100002400 | RST CHIPR 10K +-5% 1/4W YAGEO         |
| R8122 | 061G1206104 JT | 9JR6100002336 | RST CHIPR 100KOHM +-5% 1/4W TZAI YUAN |
| R8121 | 061G1206104 JT | 9JR6100002336 | RST CHIPR 100KOHM +-5% 1/4W TZAI YUAN |
| R8120 | 061G1206104 JT | 9JR6100002336 | RST CHIPR 100KOHM +-5% 1/4W TZAI YUAN |
| R8120 | 061G1206104 JY | 9JR6100002401 | RST CHIPR 100KOHM 5% 1/4W YAGEO       |
| R8121 | 061G1206104 JY | 9JR6100002401 | RST CHIPR 100KOHM 5% 1/4W YAGEO       |
| R8122 | 061G1206104 JY | 9JR6100002401 | RST CHIPR 100KOHM 5% 1/4W YAGEO       |
| R9158 | 061G1206152 JT | 9JR6100002340 | RST CHIPR 1.5KOHM +-5% 1/4W TZAI YUAN |
| R9159 | 061G1206152 JT | 9JR6100002340 | RST CHIPR 1.5KOHM +-5% 1/4W TZAI YUAN |
| R9160 | 061G1206152 JT | 9JR6100002340 | RST CHIPR 1.5KOHM +-5% 1/4W TZAI YUAN |
| R9160 | 061G1206152 JY | 9JR6100002402 | RST CHIPR 1K5 +-5% 1/4W YAGEO         |
| R9159 | 061G1206152 JY | 9JR6100002402 | RST CHIPR 1K5 +-5% 1/4W YAGEO         |
| R9158 | 061G1206152 JY | 9JR6100002402 | RST CHIPR 1K5 +-5% 1/4W YAGEO         |
| R8126 | 061G1206201 JI | 9JR6100002403 | RST 200 OHM 5% 1/4W TA-I              |
| R9128 | 061G1206201 JI | 9JR6100002403 | RST 200 OHM 5% 1/4W TA-I              |
| R8126 | 061G1206201 JT | 9JR6100001268 | RST CHIPR 200 OHM +-5% 1/4W TZAI YUAN |
| R9128 | 061G1206201 JT | 9JR6100001268 | RST CHIPR 200 OHM +-5% 1/4W TZAI YUAN |
| R9112 | 061G1206221 JT | 9JR6100002345 | RST CHIPR 220 OHM +-5% 1/4W TZAI YUAN |
| R9112 | 061G1206221 JY | 9JR6100002404 | RST CHIPR 220R +-5% 1/4W YAGEO        |
| R9905 | 061G1206224 JT | 9JR6100000706 | RST CHIPR 220KOHM +-5% 1/4W TZAI YUAN |
| R9903 | 061G1206224 JT | 9JR6100000706 | RST CHIPR 220KOHM +-5% 1/4W TZAI YUAN |
| R9902 | 061G1206224 JT | 9JR6100000706 | RST CHIPR 220KOHM +-5% 1/4W TZAI YUAN |
| R9902 | 061G1206224 JY | 9JR6100002405 | RST CHIPR 220KOHM +-5% 1/4W YAGEO     |
| R9903 | 061G1206224 JY | 9JR6100002405 | RST CHIPR 220KOHM +-5% 1/4W YAGEO     |
| R9905 | 061G1206224 JY | 9JR6100002405 | RST CHIPR 220KOHM +-5% 1/4W YAGEO     |
| R9305 | 061G1206229 JT | 9JR6100001288 | RST CHIPR 2R2 +-5% 1/4W TZAI YUAN     |
| R9305 | 061G1206229 JY | 9JR6100001149 | RST 1206 2.2R 5% 1/4W                 |
| R9164 | 061G12062409FI | 9JR6100002406 | RST 1206 24R 1% 1/4W RM12FTN2409      |
| R9163 | 061G12062409FI | 9JR6100002406 | RST 1206 24R 1% 1/4W RM12FTN2409      |
| R9107 | 061G12062409FI | 9JR6100002406 | RST 1206 24R 1% 1/4W RM12FTN2409      |
| R9106 | 061G12062409FI | 9JR6100002406 | RST 1206 24R 1% 1/4W RM12FTN2409      |
| R9102 | 061G12062409FI | 9JR6100002406 | RST 1206 24R 1% 1/4W RM12FTN2409      |
| R9182 | 061G12062409FI | 9JR6100002406 | RST 1206 24R 1% 1/4W RM12FTN2409      |
| R9181 | 061G12062409FI | 9JR6100002406 | RST 1206 24R 1% 1/4W RM12FTN2409      |
| R9154 | 061G12062409FI | 9JR6100002406 | RST 1206 24R 1% 1/4W RM12FTN2409      |
| R9153 | 061G12062409FI | 9JR6100002406 | RST 1206 24R 1% 1/4W RM12FTN2409      |
| R9152 | 061G12062409FI | 9JR6100002406 | RST 1206 24R 1% 1/4W RM12FTN2409      |
| R9164 | 061G12062409FY | 9JR6100002407 | RST 1206 24R 1% 1/4W RC1206FR-0724RL  |
| R9163 | 061G12062409FY | 9JR6100002407 | RST 1206 24R 1% 1/4W RC1206FR-0724RL  |
| R9107 | 061G12062409FY | 9JR6100002407 | RST 1206 24R 1% 1/4W RC1206FR-0724RL  |
| R9106 | 061G12062409FY | 9JR6100002407 | RST 1206 24R 1% 1/4W RC1206FR-0724RL  |
| R9102 | 061G12062409FY | 9JR6100002407 | RST 1206 24R 1% 1/4W RC1206FR-0724RL  |
| R9182 | 061G12062409FY | 9JR6100002407 | RST 1206 24R 1% 1/4W RC1206FR-0724RL  |
| R9181 | 061G12062409FY | 9JR6100002407 | RST 1206 24R 1% 1/4W RC1206FR-0724RL  |
| R9154 | 061G12062409FY | 9JR6100002407 | RST 1206 24R 1% 1/4W RC1206FR-0724RL  |
| R9153 | 061G12062409FY | 9JR6100002407 | RST 1206 24R 1% 1/4W RC1206FR-0724RL  |
| R9152 | 061G12062409FY | 9JR6100002407 | RST 1206 24R 1% 1/4W RC1206FR-0724RL  |
| R9319 | 061G1206470 JT | 9JR6100002352 | RST CHIPR 47 OHM +-5% 1/4W TZAI YUAN  |
| R9304 | 061G1206470 JT | 9JR6100002352 | RST CHIPR 47 OHM +-5% 1/4W TZAI YUAN  |



|        |                   |               |                                        |
|--------|-------------------|---------------|----------------------------------------|
| R9303  | 061G1206470 JT    | 9JR6100002352 | RST CHIPR 47 OHM +-5% 1/4W TZAI YUAN   |
| R9303  | 061G1206470 JY    | 9JR6100002408 | RST CHIPR 47R +-5% 1/4W YAGEO          |
| R9304  | 061G1206470 JY    | 9JR6100002408 | RST CHIPR 47R +-5% 1/4W YAGEO          |
| R9319  | 061G1206470 JY    | 9JR6100002408 | RST CHIPR 47R +-5% 1/4W YAGEO          |
| R9170  | 061G1206512 JT    | 9JR6100001074 | RST CHIPR 5.1 KOHM +-5% 1/4W TZAI YUAN |
| R9170  | 061G1206512 JY    | 9JR6100002409 | RST CHIPR 5.1 KOHM +-5% 1/4W YAGEO     |
| C8120  | 065G080510232K Y  | 9JR6500000110 | CAP CHIP 0805 1N 50V X7R +/-10%        |
| C8126  | 065G080510232K Y  | 9JR6500000110 | CAP CHIP 0805 1N 50V X7R +/-10%        |
| C9128  | 065G080510232K Y  | 9JR6500000110 | CAP CHIP 0805 1N 50V X7R +/-10%        |
| C9308  | 065G080510232K Y  | 9JR6500000110 | CAP CHIP 0805 1N 50V X7R +/-10%        |
| C9311  | 065G080510432K 3  | 9JR6500000268 | CAP CHIP 0805 100N 50V X7R +/-10%      |
| C9114  | 065G080510432K 3  | 9JR6500000268 | CAP CHIP 0805 100N 50V X7R +/-10%      |
| C8123  | 065G080510432K Y  | 9JR6500000168 | CAP CHIP 0805 100N 50V X7R +/-10%      |
| C8124  | 065G080510432K Y  | 9JR6500000168 | CAP CHIP 0805 100N 50V X7R +/-10%      |
| C9116  | 065G080510432K Y  | 9JR6500000168 | CAP CHIP 0805 100N 50V X7R +/-10%      |
| C9119  | 065G080510432K Y  | 9JR6500000168 | CAP CHIP 0805 100N 50V X7R +/-10%      |
| C9131  | 065G080510432K Y  | 9JR6500000168 | CAP CHIP 0805 100N 50V X7R +/-10%      |
| C8105  | 065G080510512K T  | 9JR6500001445 | CAP CHIP 0805 1UF K 16V X7R            |
| C8104  | 065G080510512K T  | 9JR6500001445 | CAP CHIP 0805 1UF K 16V X7R            |
| C8103  | 065G080510512K T  | 9JR6500001445 | CAP CHIP 0805 1UF K 16V X7R            |
| C8102  | 065G080510512K T  | 9JR6500001445 | CAP CHIP 0805 1UF K 16V X7R            |
| C9307  | 065G080522432K 3  | 9JR6500000331 | CAP CHIP 0805 220N 50V X7R +/-10%      |
| C9115  | 065G080547432K 3  | 9JR6500001466 | CAP 0805 470NF 10% 50V X7R             |
| C9113  | 065G080547432K 3  | 9JR6500001466 | CAP 0805 470NF 10% 50V X7R             |
| C8115  | 065G080547432K 3  | 9JR6500001466 | CAP 0805 470NF 10% 50V X7R             |
| C8111  | 065G080547432K 3  | 9JR6500001466 | CAP 0805 470NF 10% 50V X7R             |
| C8106  | 065G080547432K 3  | 9JR6500001466 | CAP 0805 470NF 10% 50V X7R             |
| C9305  | 065G080547432K T  | 9JR6500001467 | CAP CHIP 0805 0.47UF K 50V X7R         |
| C9112  | 065G080547432K T  | 9JR6500001467 | CAP CHIP 0805 0.47UF K 50V X7R         |
| C9111  | 065G080547432K T  | 9JR6500001467 | CAP CHIP 0805 0.47UF K 50V X7R         |
| C8110  | 065G080547432K T  | 9JR6500001467 | CAP CHIP 0805 0.47UF K 50V X7R         |
| C9117  | 065G080568232K Y  | 9JR6500001469 | CAP CHIP 0805 6.8NF 50V X7R +/-10%     |
| C9123  | 065G120647522K T  | 9JR6500001471 | CAP CHIP 1206 4.7UF K 25V X7R          |
| C9110  | 065G120647522K T  | 9JR6500001471 | CAP CHIP 1206 4.7UF K 25V X7R          |
| D9107  | 093G 6433P        | 9JR9300000416 | BAV99                                  |
| D8101  | 093G 60S500 T     | 9JR9300000407 | SCHOTTKY SS1060FL 1A 60V SOD123FL      |
| D9104  | 093G 60S500 T     | 9JR9300000407 | SCHOTTKY SS1060FL 1A 60V SOD123FL      |
| D9105  | 093G 60S500 T     | 9JR9300000407 | SCHOTTKY SS1060FL 1A 60V SOD123FL      |
| D9106  | 093G 60S500 T     | 9JR9300000407 | SCHOTTKY SS1060FL 1A 60V SOD123FL      |
| D9108  | 093G 60S500 T     | 9JR9300000407 | SCHOTTKY SS1060FL 1A 60V SOD123FL      |
| D9305  | 093G 60S500 T     | 9JR9300000407 | SCHOTTKY SS1060FL 1A 60V SOD123FL      |
|        | 709T51940QS001    | 9JR7090000006 | SMT 耗材                                 |
| CN9901 | 006G 31500        | 9JR0060000002 | EYELET                                 |
| T9101  | 006G 31502        | 9JR0060000004 | EYELET                                 |
| IC9102 | 056G 158 10 T     | 9JR5600000058 | DC/DC AS431AZTR-E1 150MA 40V TO-92     |
| R9302  | 061G 30310852T SY | 9JR6100002363 | RST FUSE 0.1R 5% 1W                    |
| R9113  | 061G152M10452T SY | 9JR6100001275 | RST MOFR 100KOHM +-5% 2WS FUTABA       |
| R9108  | 061G152M24852T SY | 9JR6100002410 | RST MOFR 0.24OHM +-5% 2WS SY           |
| R9171  | 061G152M47152T SY | 9JR6100002411 | RST MOF 470R 5% 2W FUTABA              |
| R9306  | 061G214F15552T SY | 9JR6100002412 | RST MGF 1.5M 1% 1/4W                   |
| R9310  | 061G214F15552T SY | 9JR6100002412 | RST MGF 1.5M 1% 1/4W                   |
| R9313  | 061G214F15552T SY | 9JR6100002412 | RST MGF 1.5M 1% 1/4W                   |
| SG9902 | 062G 10 18 M      | 9JR6200000008 | SPARK GAP 200V                         |
| SG9903 | 062G 10 18 M      | 9JR6200000008 | SPARK GAP 200V                         |
| C9102  | 065G 1K1529ST     | 9JR6500001460 | CAP CER 1.5NF 10% 1KV R                |
| C9103  | 065G 1K1529ST     | 9JR6500001460 | CAP CER 1.5NF 10% 1KV R                |
| C9120  | 065G 1K1529ST     | 9JR6500001460 | CAP CER 1.5NF 10% 1KV R                |

## LC-32LE40E-LC-42LE40E

|           |                    |               |                                         |
|-----------|--------------------|---------------|-----------------------------------------|
| C9301     | 065G 1K1529ST      | 9JR6500001460 | CAP CER 1.5NF 10% 1KV R                 |
| C9302     | 065G 1K1529ST      | 9JR6500001460 | CAP CER 1.5NF 10% 1KV R                 |
| C9911     | 065G306M1023SR     | 9JR6500001459 | CAP Y1 1NF 20% 250V Y5U                 |
| C9910     | 065G306M1023SR     | 9JR6500001459 | CAP Y1 1NF 20% 250V Y5U                 |
| C9908     | 065G306M1023SR     | 9JR6500001459 | CAP Y1 1NF 20% 250V Y5U                 |
| C9905     | 065G306M1023SR     | 9JR6500001459 | CAP Y1 1NF 20% 250V Y5U                 |
| C9904     | 065G306M1023SR     | 9JR6500001459 | CAP Y1 1NF 20% 250V Y5U                 |
| C9317     | 065G306M1023SR     | 9JR6500001459 | CAP Y1 1NF 20% 250V Y5U                 |
| C9314     | 065G306M1023SR     | 9JR6500001459 | CAP Y1 1NF 20% 250V Y5U                 |
| C9130     | 065G306M1023SR     | 9JR6500001459 | CAP Y1 1NF 20% 250V Y5U                 |
| C9122     | 065G306M1023SR     | 9JR6500001459 | CAP Y1 1NF 20% 250V Y5U                 |
| C9310     | 065G500K2242HT     | 9JR6500001472 | CAP CER 220NF 10% 50V X7R               |
| C9303     | 067G 2044712KT A   | 9JR6700000343 | CAP CS 470UF 20% 10V 10*7 2000 HR       |
| C9304     | 067G 2044712KT A   | 9JR6700000343 | CAP CS 470UF 20% 10V 10*7 2000 HR       |
| C9309     | 067G 3151007KB A   | 9JR6700000350 | EC 10UF 20% 50V 6.3*7 3000 HR           |
| C8127     | 067G 5151007KB     | 9JR6700000351 | EC 10UF 20% 50V 5*11 EY                 |
| C9306     | 067G 5151017KT     | 9JR6700000352 | EC 100UF 20% 50V 10*9                   |
| C9316     | 067G 5151017KT     | 9JR6700000352 | EC 100UF 20% 50V 10*9                   |
| C9101     | 067G 5152216KT     | 9JR6700000353 | EC 220UF 20% 35V EJ1V221MPN1009RU       |
| C8125     | 067G215P12010K T   | 9JR6700000355 | EC 12UF 20% 160V 10*9                   |
| C9107     | 067G215P2714KT     | 9JR7100000088 | EC 270UF 20% 25V 10*9                   |
| C9313     | 067G215P2714KT     | 9JR7100000088 | EC 270UF 20% 25V 10*9                   |
| FB9301    | 071G 55 23         | 9JR7100000259 | BEAD 3.5*7.5*0.8 100R 25% GBQM4.777.571 |
| FB9302    | 071G 55 23         | 9JR7100000259 | BEAD 3.5*7.5*0.8 100R 25% GBQM4.777.571 |
| FB9905    | 071G 55 29         | 9JR7100000057 | FERRITE BEAD                            |
| ZD9316    | 093G 3959652T      | 9JR9300000409 | GDZJ5.6B                                |
| D9301     | 093G 5212T52T      | 9JR9300000412 | DIODE 1N4007-AO DO-41                   |
| ZD9105    | 093G 39G 5         | 9JR9300000221 | DIODE MTZJ15B DO-34                     |
| ZD9106    | 093G 39G 6         | 9JR9300000191 | DIODE MTZJ27B DO-34                     |
| ZD9102    | 093G 39G 9         | 9JR9300000403 | DIODE MTZJ30B DO-34                     |
| ZD9103    | 093G 39G 11        | 9JR9300000404 | ZENER MTZJ18B 18V 0.5W DO-34            |
| ZD9101    | 093G 39G 11        | 9JR9300000404 | ZENER MTZJ18B 18V 0.5W DO-34            |
| D9304     | 093G110050152T     | 9JR9300000210 | DIODE PR1007 1A/1000V 500NS DO-41       |
| D9303     | 093G110050152T     | 9JR9300000210 | DIODE PR1007 1A/1000V 500NS DO-41       |
| D9101     | 093G110050152T     | 9JR9300000210 | DIODE PR1007 1A/1000V 500NS DO-41       |
| J931~J969 | 095G 90 23         | 9JR9500000047 | JUMPER WIRE                             |
| R9308     | 361G1SWJ10952T00SY | 9JR3610000001 | RST NWR 1.0R 5% 1W NWS01J1R00A520NH     |
| ZD9315    | 093G 3993252T      | 9JR9300000170 | TVS P6KE160AA0 160V 100A 600W DO-15     |
| E715      | 715G5194P01W21003M | 9JR7150000019 | POWER BOARD PCB                         |
| C8108     | 067G 5152216KT     | 9JR6700000353 | EC 220UF 20% 35V EJ1V221MPN1009RU       |
| C9108     | 365G001M1033SS     | 9JR3650000002 | CAP CER 10NF 20% 1KV Y5U                |
| C9312     | 365G001M1033SS     | 9JR3650000002 | CAP CER 10NF 20% 1KV Y5U                |
| C9912     | 365G001M1033SS     | 9JR3650000002 | CAP CER 10NF 20% 1KV Y5U                |
| E715      | 715G5194P01W21003S | 9JR7150000020 | POWER BOARD PCB                         |
| C9129     | 065G306M1023SR     | 9JR6500001459 | CAP Y1 1NF 20% 250V Y5U                 |
| C9133     | 065G306M1023SR     | 9JR6500001459 | CAP Y1 1NF 20% 250V Y5U                 |
| C9137     | 065G306K4712SR     | 9JR6500001457 | CAP Y1 470PF 10% 250V Y5P               |
| C9139     | 065G306K4712SR     | 9JR6500001457 | CAP Y1 470PF 10% 250V Y5P               |
| FB9304    | 071G 55 29         | 9JR7100000057 | FERRITE BEAD                            |
|           | Q11G701015000L00ZL | 9JR1100000014 | PCB-SUPPORT                             |
|           | Q45G 99606 25 ESD  | 9JR4500000128 | INSULATING PE BAG                       |
|           | 705TQBSKJ13001     | 9JR7050001014 | BASE ASS'Y                              |
| M00114    | 0Q1G 930 8120 HX   | 9JR0100000817 | SCREW Q1-SELF TAPING SCREW:Q X8         |
| M00114    | 0Q1G 930 8120 XL   | 9JR0100000818 | SCREW Q1-SELF TAPING SCREW:Q X8         |
|           | P01G003500100000RA | 9JR0100000809 | SCREW 01-SPECIAL SCREW X30              |
|           | P15T083210200000YF | 9JR1500000078 | BKT_BASE SECC                           |
|           | P34T0544ADT01T0100 | 9JR3400000128 | BASE                                    |

|        |                    |               |                                     |
|--------|--------------------|---------------|-------------------------------------|
|        | Q12G6300 25 3      | 9JR1200000048 | FOOT PAD                            |
|        | Q45G8801 TV007 ZW  | 9JR4500000135 | PROTECT BAGX550X300X0.04            |
|        | 705TQBSKJ14001     | 9JR7050001015 | STAND ASS'Y                         |
|        | AM1G1740 12225 CR3 | 9JR0100000823 | SCREW                               |
|        | AM1G1740 12225 CR3 | 9JR0100000823 | SCREW                               |
|        | P15T142210100000GH | 9JR1500000082 | BKT_HINGE SGCC                      |
|        | P15T142310100000GH | 9JR1500000083 | BKT_HINGE SGCC                      |
|        | P34T0938ADT01T0100 | 9JR3400000131 | HIGE_COVER                          |
|        | Q45G 88525T28      | 9JR4500000134 | PE BAG                              |
|        | 040G 58162435A     | 9JR4000000646 | PN LABEL FOR MANUAL PE BAG          |
|        | 052G 1185 1        | 9JR5200000065 | BIG TAPE(Y1200141)                  |
| E08901 | 089G204A15NLS1     | 9JR8900000009 | AC POWER CORD 1500                  |
|        | 092GB1JX1A3EGC     | 9JR9200000011 | BATTERY 1.5V LR03 AAA LR03E ALKALI  |
|        | 098GRABD2NESPJ     | 9JR9800000005 | REMOTE SHARP RC-SHARP-420           |
| M00101 | 0M1G 930 8 47 HX   | 9JR0100000810 | SCREW 3X8                           |
| M00101 | 0M1G 930 8 47 RA   | 9JR0100000811 | SCREW 3X8                           |
| M00104 | 0M1G1730 8120 RA   | 9JR0100000797 | SCREW 3X8                           |
| M00102 | 0M1G1730 8120 RA   | 9JR0100000797 | SCREW 3X8                           |
| M00103 | 0M1G1730 8120 RA   | 9JR0100000797 | SCREW 3X8                           |
| M00102 | 0M1G1730 8120 XL   | 9JR0100000798 | SCREW 3X8                           |
| M00104 | 0M1G1730 8120 XL   | 9JR0100000798 | SCREW 3X8                           |
| M00103 | 0M1G1730 8120 XL   | 9JR0100000798 | SCREW 3X8                           |
| M00106 | 0M1G1740 8120 HX   | 9JR0100000812 | SCREW M4X8                          |
| M00106 | 0M1G1740 8120 XL   | 9JR0100000813 | SCREW M1-MACHINE SCREW X8           |
| M00107 | 0Q1G 330 8 47 RA   | 9JR0100000802 | SCREW 3X8                           |
| M00108 | 0Q1G 330 8 47 RA   | 9JR0100000802 | SCREW 3X8                           |
| M00107 | 0Q1G 330 8 47 XL   | 9JR0100000814 | SCREW 3X8                           |
| M00108 | 0Q1G 330 8 47 XL   | 9JR0100000814 | SCREW 3X8                           |
| M00115 | 0Q1G 930 8 47 HX   | 9JR0100000815 | SCREW 3X8                           |
| M00115 | 0Q1G 930 8 47 RA   | 9JR0100000805 | SCREW 3X8                           |
| M00109 | 0Q1G 930 10 47 HX  | 9JR0100000819 | SCREW 3.0X10                        |
| M00109 | 0Q1G 930 10 47 XL  | 9JR0100000820 | SCREW Q1-SELF TAPING SCREW TA:Q X10 |
| M00110 | 0Q1G 940 16 47 H1  | 9JR0100000821 | SCREW 4X16                          |
| M00110 | 0Q1G 940 16 47 HX  | 9JR0100000822 | SCREW Q1-SELF TAPING SCREW:Q X16    |
| ECN409 | 395G176H30NM06     | 9JR3950000006 | FFC CABLE 30P 355MM P1.0            |
| E750   | 750TBU320X1013N000 | 9JR7500000145 | LCD T320XV N01.000 XM AUO           |
|        | AM1G1740 12225 CR3 | 9JR0100000823 | SCREW                               |
|        | P15T1198102CKD00YF | 9JR1500000079 | BKT_PANEL_BTM O SGCC 1.2 MM         |
|        | P15T1421101CKD00GH | 9JR1500000081 | BKT_STAND SGCC                      |
|        | P15T1465101CKD00YF | 9JR1500000077 | BKT_IO SGCC                         |
|        | P16G006601300000ZA | 9JR1600000036 | SPONGE                              |
|        | P45T 77001         | 9JR4500000004 | LLDPE WRAPX-500MX-500MMX-17MIC      |
|        | P52G180107300000JY | 9JR5200000074 | INSULATING SHEET                    |
|        | Q36G060001811300TS | 9JR3600000012 | NON-WOVEN FABRIC                    |
|        | Q40G000184307A     | 9JR4000000649 | CARTON LABEL                        |
|        | Q40G000284318A     | 9JR4000000661 | OTHER LABEL -ENERGY                 |
|        | Q40G032084301A     | 9JR4000000662 | RATING LABEL                        |
|        | Q40G201103201300ZA | 9JR4000000653 | LABEL IO_SIDE_SHARP                 |
|        | Q41G32MV84303A     | 9JR4000000655 | 32LE40E 42LE40E A MANUAL            |
|        | Q41G32MV84304A     | 9JR4000000656 | 32LE40E 42LE40E B MANUAL            |
|        | Q41G78SV84301A     | 9JR4000000657 | 32LE40E 42LE40E QSG A               |
|        | Q45G2010M0101A     | 9JR4500000129 | PE BAG FOR MANUAL                   |
|        | Q45G9901 TV019 X1  | 9JR4500000136 | PROTECT BAGX1000X680X0.5            |
|        | Q50G 500523 TS     | 9JR5000000045 | CABLE TIE                           |
|        | Q52G130118600000YY | 9JR5200000068 | TAPE                                |
|        | Q52G15011505230WXW | 9JR5200000069 | TAPE_INSULATING                     |
|        | Q52G15011505230WXW | 9JR5200000069 | TAPE_INSULATING                     |

## LC-32LE40E-LC-42LE40E

|  |                    |               |                  |
|--|--------------------|---------------|------------------|
|  | Q52G160119100A00YY | 9JR5200000071 | TAPE             |
|  | Q52G160119100A00YY | 9JR5200000071 | TAPE             |
|  | Z44GJ039101        | 9JR4400000463 | CUSHION-TL SHARP |
|  | Z44GJ039201        | 9JR4400000464 | CUSHION-TR SHARP |
|  | Z44GJ039301        | 9JR4400000465 | CUSHION-BL SHARP |
|  | Z44GJ039401        | 9JR4400000466 | CUSHION-BR SHARP |
|  | Z44GJ13084301A     | 9JR4400000467 | ARTWORK CARTON   |

| MODEL: LC-42LE40E |                    |                |                                        |
|-------------------|--------------------|----------------|----------------------------------------|
| Item              | Parts Code         | Sharp Code     | Description                            |
|                   | 705TQBSKN05001     | 9JR7050001003  | SKD KITS ASS'Y                         |
|                   | 044T3121510515     | 9JR4400000431  | SPONGE                                 |
| SP01              | 078G0110574 YA     | 9JR7800000157  | SPEAKER 16 OHM 11W 132X27MM - NO       |
|                   | 0Q1G 940 12 47 H1  | 9JR0100000806  | SCREW 4X12                             |
| ECN601            | 395G801304XM26     | 9JR3950000001  | HARNESS 4P(2506)-B&R+B&W 830+340MM     |
| ECN402            | 395G801413XM33     | 9JR3950000002  | HARNESS 13P(2008)-5P+7P 440+790MM      |
|                   | P33T0178PBC 1X0100 | 9JR3300000002  | LENS_DOUBLE_430                        |
|                   | P33T0297 1 1C0100  | 9JR3300000108  | LENS_IR_42_LED_SHP                     |
|                   | P34T0931ADTA1T0130 | 9JR3400000124  | BEZEL_42_LED_SHP                       |
|                   | P34T0932ADT02T0130 | 9JR3400000125  | REAR COVER_42_LED_SHP                  |
|                   | Q16G000103002700TS | 9JR1600000037  | SPONGE                                 |
|                   | Q36G 600 18111 TS  | 9JR3600000007  | NON-WOVEN FABRIC CLOTH 0.25 0.3        |
|                   | Q36G060003001000TS | 9JR3600000008  | NON-WOVEN FABRIC                       |
|                   | Q36G060006203200TS | 9JR3600000009  | NON-WOVEN FABRIC                       |
|                   | Q36G060006203200TS | 9JR3600000009  | NON-WOVEN FABRIC                       |
|                   | Q36G060006203300TS | 9JR3600000010  | NON-WOVEN FABRIC                       |
|                   | Q36G060006203300TS | 9JR3600000010  | NON-WOVEN FABRIC                       |
|                   | Q40G000284316A     | 9JR40000000650 | FEATURE-POP LABEL                      |
| M04501            | Q45G9901 TV021 HW  | 9JR4500000132  | PE PACKINGX1200X900X0.04               |
| M04501            | Q45G9901 TV021 WN  | 9JR4500000133  | PROTECT BAG                            |
|                   | Z52G1201026        | 9JR5200000073  | DOUBLE TAPE-PCB                        |
|                   | KEPFBAB4           | 9JR99000000544 | KEY BOARD                              |
| CN0101            | 033G8032 7F S HR   | 9JR3300000107  | CONNECTOR 7P 1.25                      |
| U102              | 056G 669 60        | 9JR56000000314 | TOUCH KEY IT7235BFN-3108/AX (R) QFN-24 |
| R112              | 061G0402101 JF     | 9JR6100002269  | RST CHIPR 100 OHM +/-5% 1/16W FENGHUA  |
| R118              | 061G04021651FF     | 9JR6100002273  | RST 0402 1.65K 1% 1/16W FENGHUA        |
| R117              | 061G04021651FF     | 9JR6100002273  | RST 0402 1.65K 1% 1/16W FENGHUA        |
| R124              | 061G04022201FI     | 9JR6100002278  | RST CHIPR 2.2KOHM +/-1% 1/16W TA-I     |
| R116              | 061G04022201FI     | 9JR6100002278  | RST CHIPR 2.2KOHM +/-1% 1/16W TA-I     |
| R122              | 061G04022941FT     | 9JR6100002280  | RST 0402 2.94K 1% 1/16W                |
| R115              | 061G04023300FF     | 9JR6100002282  | RST CHIPR 330 OHM +/-1% 1/16W FENGHUA  |
| R120              | 061G04023300FF     | 9JR6100002282  | RST CHIPR 330 OHM +/-1% 1/16W FENGHUA  |
| R119              | 061G04028200FI     | 9JR6100002296  | RST 0402 820R 1% 1/16W                 |
| R121              | 061G04028200FI     | 9JR6100002296  | RST 0402 820R 1% 1/16W                 |
| C104              | 065G040210131J 3   | 9JR6500001427  | CAP CHIP 0402 100P 50V NPO +/-5%       |
| C101              | 065G040210425K F   | 9JR6500001429  | CHIP 0402 0.1UF 25V X5R                |
| C105              | 065G040210425K F   | 9JR6500001429  | CHIP 0402 0.1UF 25V X5R                |
| C103              | 065G040210425K F   | 9JR6500001429  | CHIP 0402 0.1UF 25V X5R                |
| C102              | 065G040210425K F   | 9JR6500001429  | CHIP 0402 0.1UF 25V X5R                |
| E715              | 715G5439K01000004I | 9JR7150000018  | KEY BOARD PCB                          |
|                   | IRPFCAA1           | 9JR99000000543 | IR BOARD                               |
| U001              | 056T 627904        | 9JR56000000318 | IR RECEIVER IRM-3638TF16               |
| CN001             | 033G8032 5F X      | 9JR33000000036 | WAFER 5P 1.25MM S1315-05RVB-S03-K      |
| Q002              | 057G 477900 T      | 9JR57000000052 | TRA SIG SM BC847C (KEC0) R             |
| R002              | 061G0603000 JT     | 9JR61000000620 | RST CHIP MAX 0R05 1/10W TZAI YUAN      |
| R006              | 061G0603101 JF     | 9JR6100001098  | RST CHIPR 100 OHM +/-5% 1/10W FENGHUA  |
| R005              | 061G0603103 JY     | 9JR6100000732  | RST CHIPR 10KOHM 5% 1/10W YAGEO        |
| R003              | 061G0603222 JI     | 9JR6100002299  | RST 0603 2.2K 5% 1/10W                 |
| C003              | 065G060310432K Y   | 9JR65000000251 | CAP 0603 100NF 10% 50V X7R             |
| C001              | 065G060310512K T   | 9JR65000000253 | CAP 0603 1UF 10% 16V X7R               |
| LED001            | 081G 15 7 EL       | 9JR81000000003 | CHIP LED WHITE 50-115UMC/343996F/TR8   |
| E715              | 715G5327R01000004S | 9JR7150000017  | IR BOARD PCB                           |
|                   | 705TQBSKN08001     | 9JR7050001006  | PROCESS BOX                            |
|                   | 052G 1185          | 9JR52000000064 | MIDDLE TAPE (Y1200141)                 |
|                   | 705TQ949001        | 9JR70500000993 | COMSUPTIVE ASS'Y-A4                    |
|                   | Q52G15011505230WXW | 9JR52000000069 | TAPE_INSULATING                        |
|                   | 052G 1185          | 9JR52000000064 | MIDDLE TAPE (Y1200141)                 |
|                   | 052G 1185          | 9JR52000000064 | MIDDLE TAPE (Y1200141)                 |
|                   | 052G 1185          | 9JR52000000064 | MIDDLE TAPE (Y1200141)                 |
|                   | P45T 77001         | 9JR45000000004 | LLDPE WRAPX-500MX-500MMX-17MIC         |
|                   | 705TQBSCN11002     | 9JR7050001001  | MAIN BOARD ASS'Y                       |
|                   | 756TQCCB02B0680002 | 9JR75600000001 | MAIN BOARD-CBPFC4PBQ4S                 |
| U4051             | 056G1133121        | 9JR56000000316 | IC HY27US08561A-TPCB 256MB TSOP1-48    |
| U409              | 056G1133174        | 9JR56000000317 | EEPROM M24128-BRMN6TP 128 KB SO8       |

## LC-32LE40E-LC-42LE40E

|            |                |               |                                         |
|------------|----------------|---------------|-----------------------------------------|
| SMTF-U4051 | 100TEKAM003B21 | 9JR1000000083 | MCU ASS'Y-056G1133121                   |
| SMTF-U409  | 100TEKAM004B11 | 9JR1000000084 | MCU ASS'Y-056G1133174                   |
|            | Z40G0002ALL01A | 9JR4000000654 | SFIS LABEL 35MM*9MM                     |
| CN410      | 033G3802 3     | 9JR3300000078 | WAFER 2.0MM 3P                          |
| CN402      | 033G380213B YH | 9JR3300000106 | WAFER 2.0MM 13P                         |
| CBPF-U4051 | 070G KEYCI5366 | 9JR7000000002 | CD CI PLUS KEY FOR MT5366               |
| L601       | 073G 259903 BT | 9JR7300000162 | CHOKE COIL 47UH 10% TSL0808S-470K1R2-PF |
| L602       | 073G 259903 BT | 9JR7300000162 | CHOKE COIL 47UH 10% TSL0808S-470K1R2-PF |
| L603       | 073G 259903 BT | 9JR7300000162 | CHOKE COIL 47UH 10% TSL0808S-470K1R2-PF |
| L604       | 073G 259903 BT | 9JR7300000162 | CHOKE COIL 47UH 10% TSL0808S-470K1R2-PF |
| CN159      | 088G 50019A VA | 9JR8800000105 | PCMICA CARD R/A 68P BLACK H=9.4         |
| CN117      | 088G 78F111VCL | 9JR8800000176 | RCA JACK V/T 2P BLACK 1*1 H=8.6         |
| CN116      | 088G 78F121XCL | 9JR8800000177 | RCA JACK V/T 4P W/R 1*2 H=8.6           |
| CN152      | 088G 78F131XCL | 9JR8800000133 | RCA JACK V/T 6P Y/W/R 1*3 H=8.6         |
| CN111      | 088G 78F135XCL | 9JR8800000134 | RCA JACK V/T 6P G/BL/R 1*3 H=8.6        |
| CN136      | 088G 78G137AYG | 9JR8800000178 | RCA JACK 6P Y/W/R 1*3 R/A               |
| CN102      | 088G302F3G1VCL | 9JR8800000127 | PHONE JACK V/T 3P GREEN H=8.4           |
| CN602      | 088G302G7B1ACL | 9JR8800000179 | PHONE JACK R/A 7P BLACK H=10.5          |
| CN103      | 088G352F6B2ACL | 9JR8800000173 | USB CONN R/A 6P BLACK 8.4MM             |
| CN404      | 088G353F9M1XCL | 9JR8800000137 | D-SUB CONN SCREWED V/T 9P BLACK H=8.4   |
| CN101      | 088G353FFF1XCL | 9JR8800000131 | D-SUB CONN SCREWED V/T 15P BLUE H=8.6   |
| CN151      | 088G355FLB1VCL | 9JR8800000180 | SCART CONN V/T 21P BLACK H=8.6          |
| TU101      | 094G DVB T16G  | 9JR9400000012 | TUNER EUROPE TDTK-G731D                 |
| CN601      | 311GW250B04BBX | 9JR3110000011 | WAFER 2.5MM 4P                          |
| CN701      | 311GW250B13BBX | 9JR3110000012 | WAFER 2.5MM 13P R/A 35MM 7MM            |
|            | P12G 65011     | 9JR1200000045 | HEAT PAD                                |
|            | P12G 65017     | 9JR1200000046 | HEAT PAD _430EU FOR U401                |
|            | P85T0143101    | 9JR8500000034 | SHIELD _IC_TOP_430_EU                   |
|            | P85T0144101    | 9JR8500000035 | SHIELD _IC_BT_M_430_EU                  |
|            | P90T0065101    | 9JR9000000020 | HEAT SINK _IC_430_EU                    |
|            | Q12G7140007    | 9JR1200000048 | HEAT PAD FOR U602                       |
|            | 040G 457624 1B | 9JR4000000644 | LABEL-CPU                               |
| U604       | 056G 133907    | 9JR5600000309 | IC L78L12ABUTR SOT-89                   |
| U401       | 056G 562417    | 9JR5600000218 | SCALER MT5366CAOU/B LQFP-256            |
| U751       | 056G 563149    | 9JR5600000172 | IC G903T63UF 0.6A/3.3V SOT-223          |
| U1015      | 056G 563156    | 9JR5600000219 | IC G9141T11U SOT23-5                    |
| U702       | 056G 563289    | 9JR5600000220 | DC/DC TPS54319RTER QFN-16               |
| U701       | 056G 563289    | 9JR5600000220 | DC/DC TPS54319RTER QFN-16               |
| U755       | 056G 563519    | 9JR5600000222 | IC G965-25ADJPIUF 1.8A SOP-8            |
| U1011      | 056G 575 23    | 9JR5600000223 | DEMODULATOR MT5135AE/A LQFP-128         |
| U703       | 056G 585 8     | 9JR5600000175 | LDO AZ1117D-ADJTRE1 1A ADJ TO-252       |
| U704       | 056G 585 8     | 9JR5600000175 | LDO AZ1117D-ADJTRE1 1A ADJ TO-252       |
| U4053      | 056G 586 17    | 9JR5600000184 | ICL3232ECV-16Z-T TSSOP-16               |
| U402       | 056G 615144    | 9JR5600000313 | DRAM NT5CB64M16DP-CF 1GB BGA-96         |
| U602       | 056G 616106    | 9JR5600000226 | AUDIO TAS5717LPHPR 10W HTQFP-48         |
| U601       | 056G 616520    | 9JR5600000227 | IC DAC WM8524GEDT/R TSSOP-16 WOLFSON    |
| U4150      | 056G 623904    | 9JR5600000188 | IC TS5A3157DCKR SC70                    |
| U501       | 056G 634902    | 9JR5600000228 | OTHERS TMDS251PAGR TQFP64               |
| U410       | 056G 643 35    | 9JR5600000098 | IC MAX809STRG 2.93V SOT23-3             |
| U605       | 056G 665110    | 9JR5600000230 | MULTIPLEXER CD4052BPWR TSSOP-16         |
| U1006      | 056G 665528    | 9JR5600000180 | OTHERS IC G5250M1T1U 1A SOT23-5         |
| U110       | 056G1133 34 1  | 9JR5600000315 | EEPROM M24C02-RMN6TP 2KB SO-8           |
| U503       | 056G1133 34 1  | 9JR5600000315 | EEPROM M24C02-RMN6TP 2KB SO-8           |
| U504       | 056G1133 34 1  | 9JR5600000315 | EEPROM M24C02-RMN6TP 2KB SO-8           |
| U4051      | 056G1133121    | 9JR5600000316 | IC HY27US08561A-TPCB 256MB TSOP1-48     |
| U409       | 056G1133174    | 9JR5600000317 | EEPROM M24128-BRMN6TP 128 KB SO8        |
| U502       | 056G74LS 10    | 9JR5600000231 | LOGIC SN74LVC1G125DBVR SOT-23           |
| U603       | 056T 616914    | 9JR5600000042 | AUDIO RC4580IPWR TSSOP8                 |
| Q653       | 057G 417 18 T  | 9JR5700000088 | PMBT3904 SOT-23                         |
| Q652       | 057G 417 18 T  | 9JR5700000088 | PMBT3904 SOT-23                         |
| Q651       | 057G 417 18 T  | 9JR5700000088 | PMBT3904 SOT-23                         |
| Q650       | 057G 417 18 T  | 9JR5700000088 | PMBT3904 SOT-23                         |
| Q602       | 057G 417 18 T  | 9JR5700000088 | PMBT3904 SOT-23                         |
| Q601       | 057G 417 18 T  | 9JR5700000088 | PMBT3904 SOT-23                         |
| Q402       | 057G 417 18 T  | 9JR5700000088 | PMBT3904 SOT-23                         |
| Q401       | 057G 417 18 T  | 9JR5700000088 | PMBT3904 SOT-23                         |
| Q1008      | 057G 420519 T  | 9JR5700000044 | BC857C                                  |
| Q603       | 057G 420519 T  | 9JR5700000044 | BC857C                                  |

|        |                |               |                                     |
|--------|----------------|---------------|-------------------------------------|
| Q703   | 057G 477900 T  | 9JR5700000052 | TRA SIG SM BC847C (KEC0) R          |
| Q752   | 057G 477900 T  | 9JR5700000052 | TRA SIG SM BC847C (KEC0) R          |
| Q701   | 057G 477900 T  | 9JR5700000052 | TRA SIG SM BC847C (KEC0) R          |
| Q506   | 057G 477900 T  | 9JR5700000052 | TRA SIG SM BC847C (KEC0) R          |
| Q505   | 057G 477900 T  | 9JR5700000052 | TRA SIG SM BC847C (KEC0) R          |
| Q504   | 057G 477900 T  | 9JR5700000052 | TRA SIG SM BC847C (KEC0) R          |
| Q503   | 057G 477900 T  | 9JR5700000052 | TRA SIG SM BC847C (KEC0) R          |
| Q502   | 057G 477900 T  | 9JR5700000052 | TRA SIG SM BC847C (KEC0) R          |
| Q1150  | 057G 477900 T  | 9JR5700000052 | TRA SIG SM BC847C (KEC0) R          |
| Q1157  | 057G 477900 T  | 9JR5700000052 | TRA SIG SM BC847C (KEC0) R          |
| Q106   | 057G 760900    | 9JR5700000057 | DIGITAL TR DTC623TK SMT3            |
| Q105   | 057G 760900    | 9JR5700000057 | DIGITAL TR DTC623TK SMT3            |
| Q1151  | 057G 763904    | 9JR5700000038 | TRA FET 2N7002 SOT-23 PHILIPS       |
| Q1152  | 057G 763904    | 9JR5700000038 | TRA FET 2N7002 SOT-23 PHILIPS       |
| Q1500  | 057G 763904    | 9JR5700000038 | TRA FET 2N7002 SOT-23 PHILIPS       |
| Q1501  | 057G 763904    | 9JR5700000038 | TRA FET 2N7002 SOT-23 PHILIPS       |
| Q702   | 057G 763941    | 9JR5700000089 | MOSFET AON4421 DFN                  |
| Q751   | 057G 763941    | 9JR5700000089 | MOSFET AON4421 DFN                  |
| RP4102 | 061G 1261018JF | 9JR6100002265 | RST CHIP AR 8P4R 100 OHM +-5% 1/16W |
| RP4103 | 061G 1261018JF | 9JR6100002265 | RST CHIP AR 8P4R 100 OHM +-5% 1/16W |
| RP4104 | 061G 1261018JF | 9JR6100002265 | RST CHIP AR 8P4R 100 OHM +-5% 1/16W |
| RP4105 | 061G 1261018JF | 9JR6100002265 | RST CHIP AR 8P4R 100 OHM +-5% 1/16W |
| RP4106 | 061G 1261018JF | 9JR6100002265 | RST CHIP AR 8P4R 100 OHM +-5% 1/16W |
| RP1005 | 061G 1264708JY | 9JR6100001197 | RST CHIP ARRAY 47 OHM 1/16W 5% 8P4R |
| TH4050 | 061G 56A050 WT | 9JR6100000432 | SMD PTC 0.5A KMC3S050RY 1206        |
| R4152  | 061G0402000 JT | 9JR6100000711 | RST CHIPR MAX0R05 1/16W TZAI YUAN   |
| R4150  | 061G0402000 JT | 9JR6100000711 | RST CHIPR MAX0R05 1/16W TZAI YUAN   |
| R414   | 061G0402000 JT | 9JR6100000711 | RST CHIPR MAX0R05 1/16W TZAI YUAN   |
| R413   | 061G0402000 JT | 9JR6100000711 | RST CHIPR MAX0R05 1/16W TZAI YUAN   |
| R4105  | 061G0402000 JT | 9JR6100000711 | RST CHIPR MAX0R05 1/16W TZAI YUAN   |
| R4103  | 061G0402000 JT | 9JR6100000711 | RST CHIPR MAX0R05 1/16W TZAI YUAN   |
| R1371  | 061G0402000 JT | 9JR6100000711 | RST CHIPR MAX0R05 1/16W TZAI YUAN   |
| R1370  | 061G0402000 JT | 9JR6100000711 | RST CHIPR MAX0R05 1/16W TZAI YUAN   |
| R1341  | 061G0402000 JT | 9JR6100000711 | RST CHIPR MAX0R05 1/16W TZAI YUAN   |
| R1323  | 061G0402000 JT | 9JR6100000711 | RST CHIPR MAX0R05 1/16W TZAI YUAN   |
| R1320  | 061G0402000 JT | 9JR6100000711 | RST CHIPR MAX0R05 1/16W TZAI YUAN   |
| R4153  | 061G0402000 JT | 9JR6100000711 | RST CHIPR MAX0R05 1/16W TZAI YUAN   |
| R4154  | 061G0402000 JT | 9JR6100000711 | RST CHIPR MAX0R05 1/16W TZAI YUAN   |
| R4155  | 061G0402000 JT | 9JR6100000711 | RST CHIPR MAX0R05 1/16W TZAI YUAN   |
| R4156  | 061G0402000 JT | 9JR6100000711 | RST CHIPR MAX0R05 1/16W TZAI YUAN   |
| R4157  | 061G0402000 JT | 9JR6100000711 | RST CHIPR MAX0R05 1/16W TZAI YUAN   |
| R4158  | 061G0402000 JT | 9JR6100000711 | RST CHIPR MAX0R05 1/16W TZAI YUAN   |
| R4159  | 061G0402000 JT | 9JR6100000711 | RST CHIPR MAX0R05 1/16W TZAI YUAN   |
| R4160  | 061G0402000 JT | 9JR6100000711 | RST CHIPR MAX0R05 1/16W TZAI YUAN   |
| R4161  | 061G0402000 JT | 9JR6100000711 | RST CHIPR MAX0R05 1/16W TZAI YUAN   |
| R4162  | 061G0402000 JT | 9JR6100000711 | RST CHIPR MAX0R05 1/16W TZAI YUAN   |
| R4163  | 061G0402000 JT | 9JR6100000711 | RST CHIPR MAX0R05 1/16W TZAI YUAN   |
| R4164  | 061G0402000 JT | 9JR6100000711 | RST CHIPR MAX0R05 1/16W TZAI YUAN   |
| R1008  | 061G0402000 JT | 9JR6100000711 | RST CHIPR MAX0R05 1/16W TZAI YUAN   |
| R1009  | 061G0402000 JT | 9JR6100000711 | RST CHIPR MAX0R05 1/16W TZAI YUAN   |
| R1011  | 061G0402000 JT | 9JR6100000711 | RST CHIPR MAX0R05 1/16W TZAI YUAN   |
| R1012  | 061G0402000 JT | 9JR6100000711 | RST CHIPR MAX0R05 1/16W TZAI YUAN   |
| R1013  | 061G0402000 JT | 9JR6100000711 | RST CHIPR MAX0R05 1/16W TZAI YUAN   |
| R1016  | 061G0402000 JT | 9JR6100000711 | RST CHIPR MAX0R05 1/16W TZAI YUAN   |
| R1023  | 061G0402000 JT | 9JR6100000711 | RST CHIPR MAX0R05 1/16W TZAI YUAN   |
| R1027  | 061G0402000 JT | 9JR6100000711 | RST CHIPR MAX0R05 1/16W TZAI YUAN   |
| R1029  | 061G0402000 JT | 9JR6100000711 | RST CHIPR MAX0R05 1/16W TZAI YUAN   |
| R1033  | 061G0402000 JT | 9JR6100000711 | RST CHIPR MAX0R05 1/16W TZAI YUAN   |
| R1151  | 061G0402000 JT | 9JR6100000711 | RST CHIPR MAX0R05 1/16W TZAI YUAN   |
| R1168  | 061G0402000 JT | 9JR6100000711 | RST CHIPR MAX0R05 1/16W TZAI YUAN   |
| R1172  | 061G0402000 JT | 9JR6100000711 | RST CHIPR MAX0R05 1/16W TZAI YUAN   |
| R1181  | 061G0402000 JT | 9JR6100000711 | RST CHIPR MAX0R05 1/16W TZAI YUAN   |
| R1182  | 061G0402000 JT | 9JR6100000711 | RST CHIPR MAX0R05 1/16W TZAI YUAN   |
| R1186  | 061G0402000 JT | 9JR6100000711 | RST CHIPR MAX0R05 1/16W TZAI YUAN   |
| R1189  | 061G0402000 JT | 9JR6100000711 | RST CHIPR MAX0R05 1/16W TZAI YUAN   |
| R1190  | 061G0402000 JT | 9JR6100000711 | RST CHIPR MAX0R05 1/16W TZAI YUAN   |
| R1209  | 061G0402000 JT | 9JR6100000711 | RST CHIPR MAX0R05 1/16W TZAI YUAN   |
| R1210  | 061G0402000 JT | 9JR6100000711 | RST CHIPR MAX0R05 1/16W TZAI YUAN   |

|       |                |               |                                   |
|-------|----------------|---------------|-----------------------------------|
| R1260 | 061G0402000 JT | 9JR6100000711 | RST CHIPR MAX0R05 1/16W TZAI YUAN |
| R1284 | 061G0402000 JT | 9JR6100000711 | RST CHIPR MAX0R05 1/16W TZAI YUAN |
| R1317 | 061G0402000 JT | 9JR6100000711 | RST CHIPR MAX0R05 1/16W TZAI YUAN |
| R620  | 061G0402000 JT | 9JR6100000711 | RST CHIPR MAX0R05 1/16W TZAI YUAN |
| R616  | 061G0402000 JT | 9JR6100000711 | RST CHIPR MAX0R05 1/16W TZAI YUAN |
| R564  | 061G0402000 JT | 9JR6100000711 | RST CHIPR MAX0R05 1/16W TZAI YUAN |
| R556  | 061G0402000 JT | 9JR6100000711 | RST CHIPR MAX0R05 1/16W TZAI YUAN |
| R504  | 061G0402000 JT | 9JR6100000711 | RST CHIPR MAX0R05 1/16W TZAI YUAN |
| R501  | 061G0402000 JT | 9JR6100000711 | RST CHIPR MAX0R05 1/16W TZAI YUAN |
| R4226 | 061G0402000 JT | 9JR6100000711 | RST CHIPR MAX0R05 1/16W TZAI YUAN |
| R4165 | 061G0402000 JT | 9JR6100000711 | RST CHIPR MAX0R05 1/16W TZAI YUAN |
| R4166 | 061G0402000 JT | 9JR6100000711 | RST CHIPR MAX0R05 1/16W TZAI YUAN |
| R4173 | 061G0402000 JT | 9JR6100000711 | RST CHIPR MAX0R05 1/16W TZAI YUAN |
| R4175 | 061G0402000 JT | 9JR6100000711 | RST CHIPR MAX0R05 1/16W TZAI YUAN |
| R4210 | 061G0402000 JT | 9JR6100000711 | RST CHIPR MAX0R05 1/16W TZAI YUAN |
| R4213 | 061G0402000 JT | 9JR6100000711 | RST CHIPR MAX0R05 1/16W TZAI YUAN |
| R4219 | 061G0402000 JT | 9JR6100000711 | RST CHIPR MAX0R05 1/16W TZAI YUAN |
| R652  | 061G0402100 JT | 9JR6100000875 | RST CHIP 10R 1/16W 5% TZAI YUAN   |
| R653  | 061G0402100 JT | 9JR6100000875 | RST CHIP 10R 1/16W 5% TZAI YUAN   |
| R654  | 061G0402100 JT | 9JR6100000875 | RST CHIP 10R 1/16W 5% TZAI YUAN   |
| R669  | 061G0402100 JT | 9JR6100000875 | RST CHIP 10R 1/16W 5% TZAI YUAN   |
| R574  | 061G04021000FT | 9JR6100000672 | RST CHIP 100R 1/16W 1%            |
| R573  | 061G04021000FT | 9JR6100000672 | RST CHIP 100R 1/16W 1%            |
| R572  | 061G04021000FT | 9JR6100000672 | RST CHIP 100R 1/16W 1%            |
| R571  | 061G04021000FT | 9JR6100000672 | RST CHIP 100R 1/16W 1%            |
| R1185 | 061G04021000FT | 9JR6100000672 | RST CHIP 100R 1/16W 1%            |
| R4170 | 061G04021001FT | 9JR6100002267 | RST CHIP R 1KOHM 1/16W +/-1%      |
| R4172 | 061G04021001FT | 9JR6100002267 | RST CHIP R 1KOHM 1/16W +/-1%      |
| R4107 | 061G04021001FY | 9JR6100002268 | RST CHIP 1K 1/16W 1%              |
| R4106 | 061G04021001FY | 9JR6100002268 | RST CHIP 1K 1/16W 1%              |
| R4102 | 061G04021001FY | 9JR6100002268 | RST CHIP 1K 1/16W 1%              |
| R4101 | 061G04021001FY | 9JR6100002268 | RST CHIP 1K 1/16W 1%              |
| R730  | 061G04021003FI | 9JR6100001198 | RST CHIP 100K 1/16W 1% TA-I       |
| R4216 | 061G0402101 JT | 9JR6100000600 | RST CHIP 100R 1/16W 5% TZAI YUAN  |
| R4218 | 061G0402101 JT | 9JR6100000600 | RST CHIP 100R 1/16W 5% TZAI YUAN  |
| R4229 | 061G0402101 JT | 9JR6100000600 | RST CHIP 100R 1/16W 5% TZAI YUAN  |
| R4230 | 061G0402101 JT | 9JR6100000600 | RST CHIP 100R 1/16W 5% TZAI YUAN  |
| R4232 | 061G0402101 JT | 9JR6100000600 | RST CHIP 100R 1/16W 5% TZAI YUAN  |
| R521  | 061G0402101 JT | 9JR6100000600 | RST CHIP 100R 1/16W 5% TZAI YUAN  |
| R522  | 061G0402101 JT | 9JR6100000600 | RST CHIP 100R 1/16W 5% TZAI YUAN  |
| R529  | 061G0402101 JT | 9JR6100000600 | RST CHIP 100R 1/16W 5% TZAI YUAN  |
| R530  | 061G0402101 JT | 9JR6100000600 | RST CHIP 100R 1/16W 5% TZAI YUAN  |
| R545  | 061G0402101 JT | 9JR6100000600 | RST CHIP 100R 1/16W 5% TZAI YUAN  |
| R554  | 061G0402101 JT | 9JR6100000600 | RST CHIP 100R 1/16W 5% TZAI YUAN  |
| R570  | 061G0402101 JT | 9JR6100000600 | RST CHIP 100R 1/16W 5% TZAI YUAN  |
| R702  | 061G0402101 JT | 9JR6100000600 | RST CHIP 100R 1/16W 5% TZAI YUAN  |
| R4113 | 061G0402101 JT | 9JR6100000600 | RST CHIP 100R 1/16W 5% TZAI YUAN  |
| R1010 | 061G0402101 JT | 9JR6100000600 | RST CHIP 100R 1/16W 5% TZAI YUAN  |
| R1019 | 061G0402101 JT | 9JR6100000600 | RST CHIP 100R 1/16W 5% TZAI YUAN  |
| R1155 | 061G0402101 JT | 9JR6100000600 | RST CHIP 100R 1/16W 5% TZAI YUAN  |
| R1157 | 061G0402101 JT | 9JR6100000600 | RST CHIP 100R 1/16W 5% TZAI YUAN  |
| R1176 | 061G0402101 JT | 9JR6100000600 | RST CHIP 100R 1/16W 5% TZAI YUAN  |
| R1178 | 061G0402101 JT | 9JR6100000600 | RST CHIP 100R 1/16W 5% TZAI YUAN  |
| R1187 | 061G0402101 JT | 9JR6100000600 | RST CHIP 100R 1/16W 5% TZAI YUAN  |
| R1332 | 061G0402101 JT | 9JR6100000600 | RST CHIP 100R 1/16W 5% TZAI YUAN  |
| R1333 | 061G0402101 JT | 9JR6100000600 | RST CHIP 100R 1/16W 5% TZAI YUAN  |
| R4104 | 061G0402101 JT | 9JR6100000600 | RST CHIP 100R 1/16W 5% TZAI YUAN  |
| R4110 | 061G0402101 JT | 9JR6100000600 | RST CHIP 100R 1/16W 5% TZAI YUAN  |
| R4111 | 061G0402101 JT | 9JR6100000600 | RST CHIP 100R 1/16W 5% TZAI YUAN  |
| R4112 | 061G0402101 JT | 9JR6100000600 | RST CHIP 100R 1/16W 5% TZAI YUAN  |
| R716  | 061G0402102 JT | 9JR6100000601 | RST CHIP 1K 1/16W 5% TZAI YUAN    |
| R644  | 061G0402102 JT | 9JR6100000601 | RST CHIP 1K 1/16W 5% TZAI YUAN    |
| R642  | 061G0402102 JT | 9JR6100000601 | RST CHIP 1K 1/16W 5% TZAI YUAN    |
| R532  | 061G0402102 JT | 9JR6100000601 | RST CHIP 1K 1/16W 5% TZAI YUAN    |
| R526  | 061G0402102 JT | 9JR6100000601 | RST CHIP 1K 1/16W 5% TZAI YUAN    |
| R4204 | 061G0402102 JT | 9JR6100000601 | RST CHIP 1K 1/16W 5% TZAI YUAN    |
| R4177 | 061G0402102 JT | 9JR6100000601 | RST CHIP 1K 1/16W 5% TZAI YUAN    |
| R4176 | 061G0402102 JT | 9JR6100000601 | RST CHIP 1K 1/16W 5% TZAI YUAN    |





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|-------|----------------|---------------|-----------------------------------------|
| R4201 | 061G0402153 JT | 9JR6100000876 | RST CHIP 15K 1/16W 5% TZAI YUAN         |
| R751  | 061G0402153 JT | 9JR6100000876 | RST CHIP 15K 1/16W 5% TZAI YUAN         |
| R1163 | 061G0402180 JT | 9JR6100000605 | RST CHIP 18R 1/16W 5% TZAI YUAN         |
| R1165 | 061G0402180 JT | 9JR6100000605 | RST CHIP 18R 1/16W 5% TZAI YUAN         |
| R1167 | 061G0402180 JT | 9JR6100000605 | RST CHIP 18R 1/16W 5% TZAI YUAN         |
| R1318 | 061G04021800FT | 9JR6100001206 | RST CHIP 180R 1/16W 1% TZAI YUAN        |
| R1342 | 061G04021800FT | 9JR6100001206 | RST CHIP 180R 1/16W 1% TZAI YUAN        |
| R541  | 061G04021800FT | 9JR6100001206 | RST CHIP 180R 1/16W 1% TZAI YUAN        |
| R736  | 061G04021803FT | 9JR6100002274 | RST 0402 180K 1/16W 1% TZAI YUAN        |
| R737  | 061G04021803FT | 9JR6100002274 | RST 0402 180K 1/16W 1% TZAI YUAN        |
| R661  | 061G04021822FF | 9JR6100002275 | RST CHIPR 18.2KOHM +/-1% 1/16W FENGHUA  |
| R692  | 061G0402203 JT | 9JR6100002276 | RST CHIP 20K 1/16W 5% TZAI YUAN         |
| R672  | 061G0402203 JT | 9JR6100002276 | RST CHIP 20K 1/16W 5% TZAI YUAN         |
| R679  | 061G04022102FI | 9JR6100002277 | TEST ONLY RST CHIP 21K 1/16W 1% TA-I    |
| R689  | 061G04022102FI | 9JR6100002277 | TEST ONLY RST CHIP 21K 1/16W 1% TA-I    |
| R1264 | 061G0402220 JT | 9JR6100000607 | RST CHIP 22R 1/16W 5% TZAI YUAN         |
| R1265 | 061G0402220 JT | 9JR6100000607 | RST CHIP 22R 1/16W 5% TZAI YUAN         |
| R1267 | 061G0402220 JT | 9JR6100000607 | RST CHIP 22R 1/16W 5% TZAI YUAN         |
| R1268 | 061G0402220 JT | 9JR6100000607 | RST CHIP 22R 1/16W 5% TZAI YUAN         |
| R1269 | 061G0402220 JT | 9JR6100000607 | RST CHIP 22R 1/16W 5% TZAI YUAN         |
| R1270 | 061G0402220 JT | 9JR6100000607 | RST CHIP 22R 1/16W 5% TZAI YUAN         |
| R4227 | 061G0402220 JT | 9JR6100000607 | RST CHIP 22R 1/16W 5% TZAI YUAN         |
| R1290 | 061G0402220 JT | 9JR6100000607 | RST CHIP 22R 1/16W 5% TZAI YUAN         |
| R1289 | 061G0402220 JT | 9JR6100000607 | RST CHIP 22R 1/16W 5% TZAI YUAN         |
| R1288 | 061G0402220 JT | 9JR6100000607 | RST CHIP 22R 1/16W 5% TZAI YUAN         |
| R1287 | 061G0402220 JT | 9JR6100000607 | RST CHIP 22R 1/16W 5% TZAI YUAN         |
| R1280 | 061G0402220 JT | 9JR6100000607 | RST CHIP 22R 1/16W 5% TZAI YUAN         |
| R1279 | 061G0402220 JT | 9JR6100000607 | RST CHIP 22R 1/16W 5% TZAI YUAN         |
| R1278 | 061G0402220 JT | 9JR6100000607 | RST CHIP 22R 1/16W 5% TZAI YUAN         |
| R1277 | 061G0402220 JT | 9JR6100000607 | RST CHIP 22R 1/16W 5% TZAI YUAN         |
| R1276 | 061G0402220 JT | 9JR6100000607 | RST CHIP 22R 1/16W 5% TZAI YUAN         |
| R1275 | 061G0402220 JT | 9JR6100000607 | RST CHIP 22R 1/16W 5% TZAI YUAN         |
| R1274 | 061G0402220 JT | 9JR6100000607 | RST CHIP 22R 1/16W 5% TZAI YUAN         |
| R1273 | 061G0402220 JT | 9JR6100000607 | RST CHIP 22R 1/16W 5% TZAI YUAN         |
| R1272 | 061G0402220 JT | 9JR6100000607 | RST CHIP 22R 1/16W 5% TZAI YUAN         |
| R1271 | 061G0402220 JT | 9JR6100000607 | RST CHIP 22R 1/16W 5% TZAI YUAN         |
| R1180 | 061G0402222 JT | 9JR6100000608 | RST CHIP 2K2 1/16W 5% TZAI YUAN         |
| R1179 | 061G0402222 JT | 9JR6100000608 | RST CHIP 2K2 1/16W 5% TZAI YUAN         |
| R706  | 061G0402223 JT | 9JR6100000609 | RST CHIP 22K 1/16W 5% TZAI YUAN         |
| R1184 | 061G04022400FT | 9JR6100002279 | RST CHIPR 240 OHM +/-1% 1/16W TZAI YUAN |
| R4108 | 061G04022400FT | 9JR6100002279 | RST CHIPR 240 OHM +/-1% 1/16W TZAI YUAN |
| R703  | 061G0402272 JT | 9JR6100000877 | RST CHIP 2K7 1/16W 5% TZAI YUAN         |
| R502  | 061G0402273 JT | 9JR6100000610 | RST CHIP 27K 1/16W 5% TZAI YUAN         |
| R718  | 061G04023000FT | 9JR6100002281 | RST CHIP 300R 1/16W 1%                  |
| R722  | 061G04023000FT | 9JR6100002281 | RST CHIP 300R 1/16W 1%                  |
| R626  | 061G0402303 JT | 9JR6100000878 | RST CHIP R 30KOHM 1/16W +/-5% TZAI YUAN |
| R637  | 061G0402303 JT | 9JR6100000878 | RST CHIP R 30KOHM 1/16W +/-5% TZAI YUAN |
| R662  | 061G0402330 JT | 9JR6100000611 | RST CHIP 33R 1/16W 5% TZAI YUAN         |
| R657  | 061G0402330 JT | 9JR6100000611 | RST CHIP 33R 1/16W 5% TZAI YUAN         |
| R656  | 061G0402330 JT | 9JR6100000611 | RST CHIP 33R 1/16W 5% TZAI YUAN         |
| R655  | 061G0402330 JT | 9JR6100000611 | RST CHIP 33R 1/16W 5% TZAI YUAN         |
| R621  | 061G0402330 JT | 9JR6100000611 | RST CHIP 33R 1/16W 5% TZAI YUAN         |
| R538  | 061G0402330 JT | 9JR6100000611 | RST CHIP 33R 1/16W 5% TZAI YUAN         |
| R524  | 061G0402330 JT | 9JR6100000611 | RST CHIP 33R 1/16W 5% TZAI YUAN         |
| R4214 | 061G0402330 JT | 9JR6100000611 | RST CHIP 33R 1/16W 5% TZAI YUAN         |
| R760  | 061G04023302FT | 9JR6100002283 | RST CHIP R 33KOHM 1/16W +/-1%           |
| R729  | 061G04023302FT | 9JR6100002283 | RST CHIP R 33KOHM 1/16W +/-1%           |
| R721  | 061G04023302FT | 9JR6100002283 | RST CHIP R 33KOHM 1/16W +/-1%           |
| R4181 | 061G0402331 JT | 9JR6100000612 | RST CHIP 330R 1/16W 5% TZAI YUAN        |
| R4183 | 061G0402331 JT | 9JR6100000612 | RST CHIP 330R 1/16W 5% TZAI YUAN        |
| R704  | 061G0402333 JT | 9JR6100002284 | RST CHIP 33K 1/16W 5% TZAI YUAN         |
| R546  | 061G04024021FT | 9JR6100002285 | RST 0402 4.02K 1% 1/16W                 |
| R759  | 061G04024301FT | 9JR6100002286 | RST CHIP 4K3 1/16W 1%                   |
| R688  | 061G04024302FT | 9JR6100002287 | RST 0402 43K 1% 1/16W                   |
| R676  | 061G04024302FT | 9JR6100002287 | RST 0402 43K 1% 1/16W                   |
| R612  | 061G04024532FT | 9JR6100002288 | RST 0402 45.3K 1% 1/16W TZAI YUAN       |
| R613  | 061G04024532FT | 9JR6100002288 | RST 0402 45.3K 1% 1/16W TZAI YUAN       |
| R1291 | 061G0402470 JT | 9JR6100002289 | RST CHIP 47R 1/16W 5% TZAI YUAN         |

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|-------|----------------|---------------|--------------------------------------|
| R1195 | 061G0402473 JT | 9JR6100000616 | RST CHIP 47K 1/16W 5% TZAI YUAN      |
| R1196 | 061G0402473 JT | 9JR6100000616 | RST CHIP 47K 1/16W 5% TZAI YUAN      |
| R1197 | 061G0402473 JT | 9JR6100000616 | RST CHIP 47K 1/16W 5% TZAI YUAN      |
| R1198 | 061G0402473 JT | 9JR6100000616 | RST CHIP 47K 1/16W 5% TZAI YUAN      |
| R1199 | 061G0402473 JT | 9JR6100000616 | RST CHIP 47K 1/16W 5% TZAI YUAN      |
| R1200 | 061G0402473 JT | 9JR6100000616 | RST CHIP 47K 1/16W 5% TZAI YUAN      |
| R525  | 061G0402474 JT | 9JR6100000881 | RST CHIP 470K 1/16W 5% TZAI YUAN     |
| R531  | 061G0402474 JT | 9JR6100000881 | RST CHIP 470K 1/16W 5% TZAI YUAN     |
| R673  | 061G0402479 JT | 9JR6100002290 | RST CHIP 4R7 1/16W 5% TZAI YUAN      |
| R674  | 061G0402479 JT | 9JR6100002290 | RST CHIP 4R7 1/16W 5% TZAI YUAN      |
| R4171 | 061G04025101FT | 9JR6100002291 | RST CHIP 5.1K 1/16W 1% TZAI YUAN     |
| R1319 | 061G04025109FT | 9JR6100001225 | RST 0402 51R 1% 1/16W                |
| R1322 | 061G04025109FT | 9JR6100001225 | RST 0402 51R 1% 1/16W                |
| R753  | 061G0402512 JT | 9JR6100002292 | RST CHIP 5K1 1/16W 5% TZAI YUAN      |
| R1015 | 061G0402513 JT | 9JR6100000882 | RST CHIP 51K 1/16W 5% TZAI YUAN      |
| R1164 | 061G0402560 JT | 9JR6100002293 | RST CHIP 56R 1/16W 5% TZAI YUAN      |
| R1161 | 061G0402560 JT | 9JR6100002293 | RST CHIP 56R 1/16W 5% TZAI YUAN      |
| R1156 | 061G0402560 JT | 9JR6100002293 | RST CHIP 56R 1/16W 5% TZAI YUAN      |
| R4168 | 061G04025600FY | 9JR6100000450 | RST CHIP 560R 1/16W 1%               |
| R1004 | 061G0402680 JT | 9JR6100000617 | RST CHIP 68R 1/16W 5% TZAI YUAN      |
| R1005 | 061G0402680 JT | 9JR6100000617 | RST CHIP 68R 1/16W 5% TZAI YUAN      |
| R1018 | 061G0402680 JT | 9JR6100000617 | RST CHIP 68R 1/16W 5% TZAI YUAN      |
| R1153 | 061G0402680 JT | 9JR6100000617 | RST CHIP 68R 1/16W 5% TZAI YUAN      |
| R1159 | 061G0402680 JT | 9JR6100000617 | RST CHIP 68R 1/16W 5% TZAI YUAN      |
| R1166 | 061G0402680 JT | 9JR6100000617 | RST CHIP 68R 1/16W 5% TZAI YUAN      |
| R1170 | 061G0402680 JT | 9JR6100000617 | RST CHIP 68R 1/16W 5% TZAI YUAN      |
| R1173 | 061G0402680 JT | 9JR6100000617 | RST CHIP 68R 1/16W 5% TZAI YUAN      |
| R1175 | 061G0402680 JT | 9JR6100000617 | RST CHIP 68R 1/16W 5% TZAI YUAN      |
| R4233 | 061G04026801FT | 9JR6100001230 | RST CHIPR 6K8 +-1% 1/16W TZAI YUAN   |
| R1188 | 061G0402750 JT | 9JR6100000618 | RST 0402 75R 5% 1/16W                |
| R1174 | 061G0402750 JT | 9JR6100000618 | RST 0402 75R 5% 1/16W                |
| R1171 | 061G0402750 JT | 9JR6100000618 | RST 0402 75R 5% 1/16W                |
| R1169 | 061G0402750 JT | 9JR6100000618 | RST 0402 75R 5% 1/16W                |
| R1028 | 061G0402750 JT | 9JR6100000618 | RST 0402 75R 5% 1/16W                |
| R1024 | 061G0402750 JT | 9JR6100000618 | RST 0402 75R 5% 1/16W                |
| R1020 | 061G0402750 JT | 9JR6100000618 | RST 0402 75R 5% 1/16W                |
| R1014 | 061G0402750 JT | 9JR6100000618 | RST 0402 75R 5% 1/16W                |
| R1003 | 061G0402750 JT | 9JR6100000618 | RST 0402 75R 5% 1/16W                |
| R1002 | 061G0402750 JT | 9JR6100000618 | RST 0402 75R 5% 1/16W                |
| R1001 | 061G0402750 JT | 9JR6100000618 | RST 0402 75R 5% 1/16W                |
| R1321 | 061G04027509FF | 9JR6100002294 | RST CHIPR 75 OHM +-1% 1/16W FENGHUA  |
| R715  | 061G0402752 JT | 9JR6100002295 | RST CHIP 7K5 1/16W 5% TZAI YUAN      |
| R731  | 061G0402752 JT | 9JR6100002295 | RST CHIP 7K5 1/16W 5% TZAI YUAN      |
| R758  | 061G0402752 JT | 9JR6100002295 | RST CHIP 7K5 1/16W 5% TZAI YUAN      |
| R551  | 061G04028209FT | 9JR6100001232 | RST 0402 82R 1% 1/16W                |
| R631  | 061G0603000 JT | 9JR6100000620 | RST CHIP MAX 0R05 1/10W TZAI YUAN    |
| R605  | 061G0603100 JT | 9JR6100000621 | RST CHIP 10R 1/10W 5% TZAI YUAN      |
| R405  | 061G0603101 JT | 9JR6100000622 | RST CHIP 100R 1/10W 5% TZAI YUAN     |
| R1204 | 061G0603101 JT | 9JR6100000622 | RST CHIP 100R 1/10W 5% TZAI YUAN     |
| R1251 | 061G0603103 JT | 9JR6100000624 | RST CHIP 10K 1/10W 5% TZAI YUAN      |
| R1252 | 061G0603103 JT | 9JR6100000624 | RST CHIP 10K 1/10W 5% TZAI YUAN      |
| R1253 | 061G0603103 JT | 9JR6100000624 | RST CHIP 10K 1/10W 5% TZAI YUAN      |
| R418  | 061G0603103 JT | 9JR6100000624 | RST CHIP 10K 1/10W 5% TZAI YUAN      |
| R757  | 061G0603109 JT | 9JR6100000627 | RST CHIP 1R 1/10W 5% TZAI YUAN       |
| R712  | 061G06031200FT | 9JR6100000535 | RST CHIP 120R 1/10W 1%               |
| R720  | 061G06031202FT | 9JR6100002297 | RST CHIP 12K 1/10W 1%                |
| R761  | 061G06031202FT | 9JR6100002297 | RST CHIP 12K 1/10W 1%                |
| R756  | 061G0603181 JI | 9JR6100002298 | RST 0603 180R 5% 1/10W               |
| R726  | 061G06032709FT | 9JR6100001236 | RST CHIP 27R 1/10W 1%                |
| R610  | 061G06032802FF | 9JR6100002300 | RST CHIPR 28KOHM +-1% 1/10W FENGHUA  |
| R611  | 061G06032802FF | 9JR6100002300 | RST CHIPR 28KOHM +-1% 1/10W FENGHUA  |
| R1286 | 061G0603334 JF | 9JR6100002301 | RST CHIPR 330KOHM 5% 1/10W FENGHUA   |
| R1330 | 061G0603472 JT | 9JR6100000641 | RST CHIP 4K7 1/10W 5% TZAI YUAN      |
| R1331 | 061G0603472 JT | 9JR6100000641 | RST CHIP 4K7 1/10W 5% TZAI YUAN      |
| R1285 | 061G0603474 JF | 9JR6100000911 | RST CHIPR 470KOHM +-5% 1/10W FENGHUA |
| R724  | 061G1206000 JT | 9JR6100000662 | RST CHIPR MAX0R05 1/4W TZAI YUAN     |
| R732  | 061G1206000 JT | 9JR6100000662 | RST CHIPR MAX0R05 1/4W TZAI YUAN     |
| R754  | 061G1206000 JT | 9JR6100000662 | RST CHIPR MAX0R05 1/4W TZAI YUAN     |

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|-------|------------------|---------------|-------------------------------------|
| C1159 | 065G040215031J Y | 9JR6500000234 | CAP CHIP 0402 15PF J 50V NPO        |
| C1170 | 065G040215232K Y | 9JR6500000439 | CAP CHIP 0402 1.5NF 50V X7R         |
| C1152 | 065G040215232K Y | 9JR6500000439 | CAP CHIP 0402 1.5NF 50V X7R         |
| C710  | 065G040222031J 3 | 9JR6500000289 | CAP CHIP 0402 22P 50V NPO +/-5%     |
| C706  | 065G040222031J 3 | 9JR6500000289 | CAP CHIP 0402 22P 50V NPO +/-5%     |
| C669  | 065G040222031J 3 | 9JR6500000289 | CAP CHIP 0402 22P 50V NPO +/-5%     |
| C667  | 065G040222031J 3 | 9JR6500000289 | CAP CHIP 0402 22P 50V NPO +/-5%     |
| C628  | 065G040222031J 3 | 9JR6500000289 | CAP CHIP 0402 22P 50V NPO +/-5%     |
| C623  | 065G040222031J Y | 9JR6500000235 | CAP CHIP 0402 22P 50V NP0 +/-5%     |
| C626  | 065G040222031J Y | 9JR6500000235 | CAP CHIP 0402 22P 50V NP0 +/-5%     |
| C4259 | 065G0402224A5K 3 | 9JR6500001430 | CAP 0402 220N 10V X5R +/-10%        |
| C4262 | 065G0402224A5K 3 | 9JR6500001430 | CAP 0402 220N 10V X5R +/-10%        |
| C506  | 065G0402224A5K Y | 9JR6500000342 | CAP CHIP 0402 220N 10V X5R +/-10%   |
| C511  | 065G0402224A5K Y | 9JR6500000342 | CAP CHIP 0402 220N 10V X5R +/-10%   |
| C1238 | 065G040227031J Y | 9JR6500000236 | CAP CHIP 0402 27P 50V NP0 +/-5%     |
| C1239 | 065G040233031J Y | 9JR6500000237 | CAP CHIP 0402 33P 50V NP0 +/-5%     |
| C621  | 065G040233131J T | 9JR6500001431 | CAP CHIP 0402 330PF 50V J NPO       |
| C620  | 065G040233131J T | 9JR6500001431 | CAP CHIP 0402 330PF 50V J NPO       |
| C666  | 065G040233131J Y | 9JR6500001432 | 0402 330PF J 50V NPO                |
| C664  | 065G040233131J Y | 9JR6500001432 | 0402 330PF J 50V NPO                |
| C722  | 065G040233232K 3 | 9JR6500001433 | CAP CHIP 0402 3300PF 50V X7R +/-10% |
| C720  | 065G040233232K 3 | 9JR6500001433 | CAP CHIP 0402 3300PF 50V X7R +/-10% |
| C1300 | 065G040239031J T | 9JR6500001434 | CAP CHIP 0402 39PF 50V J NPO        |
| C1301 | 065G040239031J T | 9JR6500001434 | CAP CHIP 0402 39PF 50V J NPO        |
| C1009 | 065G040247031J Y | 9JR6500000203 | CAP 0402 47PF 5% 50V NP0            |
| C1014 | 065G040247031J Y | 9JR6500000203 | CAP 0402 47PF 5% 50V NP0            |
| C1016 | 065G040247031J Y | 9JR6500000203 | CAP 0402 47PF 5% 50V NP0            |
| C1306 | 065G040247312K 3 | 9JR6500000309 | CHIP CAP 47NF16V X7R 10%            |
| C4173 | 065G040247312K T | 9JR6500001435 | CAP 0402 47NF 10% 16V X7R           |
| C694  | 065G040247312K T | 9JR6500001435 | CAP 0402 47NF 10% 16V X7R           |
| C697  | 065G040247312K T | 9JR6500001435 | CAP 0402 47NF 10% 16V X7R           |
| C1010 | 065G040247312K T | 9JR6500001435 | CAP 0402 47NF 10% 16V X7R           |
| C1184 | 065G040247312K T | 9JR6500001435 | CAP 0402 47NF 10% 16V X7R           |
| C1305 | 065G040247312K T | 9JR6500001435 | CAP 0402 47NF 10% 16V X7R           |
| C1167 | 065G040250931C 3 | 9JR6500001436 | CAP CHIP 0402 5PF 50V NP0 +/-0.25PF |
| C1168 | 065G040250931C 3 | 9JR6500001436 | CAP CHIP 0402 5PF 50V NP0 +/-0.25PF |
| C1169 | 065G040250931C 3 | 9JR6500001436 | CAP CHIP 0402 5PF 50V NP0 +/-0.25PF |
| C1157 | 065G040250931C Y | 9JR6500000441 | CAP 0402 5PF 0.25PF 50V NP0         |
| C1154 | 065G040250931C Y | 9JR6500000441 | CAP 0402 5PF 0.25PF 50V NP0         |
| C1318 | 065G060310332K 3 | 9JR6500000248 | CAP CHIP 0603 10N 50V X7R +/-10%    |
| C1317 | 065G060310332K 3 | 9JR6500000248 | CAP CHIP 0603 10N 50V X7R +/-10%    |
| C1313 | 065G060310332K Y | 9JR6500000249 | CAP CHIP 0603 10N 50V X7R +/-10%    |
| C1309 | 065G060310332K Y | 9JR6500000249 | CAP CHIP 0603 10N 50V X7R +/-10%    |
| C1181 | 065G060310332K Y | 9JR6500000249 | CAP CHIP 0603 10N 50V X7R +/-10%    |
| C1179 | 065G060310332K Y | 9JR6500000249 | CAP CHIP 0603 10N 50V X7R +/-10%    |
| C601  | 065G060310432K Y | 9JR6500000251 | CAP 0603 100NF 10% 50V X7R          |
| C654  | 065G060310432K Y | 9JR6500000251 | CAP 0603 100NF 10% 50V X7R          |
| C655  | 065G060310432K Y | 9JR6500000251 | CAP 0603 100NF 10% 50V X7R          |
| C695  | 065G060310432K Y | 9JR6500000251 | CAP 0603 100NF 10% 50V X7R          |
| C715  | 065G060310432K Y | 9JR6500000251 | CAP 0603 100NF 10% 50V X7R          |
| C716  | 065G060310432K Y | 9JR6500000251 | CAP 0603 100NF 10% 50V X7R          |
| C610  | 065G060310512K 3 | 9JR6500000204 | CAP 0603 1UF 10% 16V X7R            |
| C617  | 065G060310512K 3 | 9JR6500000204 | CAP 0603 1UF 10% 16V X7R            |
| C689  | 065G060310512K 3 | 9JR6500000204 | CAP 0603 1UF 10% 16V X7R            |
| C4167 | 065G060310512K A | 9JR6500000492 | CAP 0603 1UF 10% 16V X7R            |
| C672  | 065G060310512K A | 9JR6500000492 | CAP 0603 1UF 10% 16V X7R            |
| C674  | 065G060310512K A | 9JR6500000492 | CAP 0603 1UF 10% 16V X7R            |
| C681  | 065G060310512K A | 9JR6500000492 | CAP 0603 1UF 10% 16V X7R            |
| C684  | 065G060310512K A | 9JR6500000492 | CAP 0603 1UF 10% 16V X7R            |
| C704  | 065G060310512K A | 9JR6500000492 | CAP 0603 1UF 10% 16V X7R            |
| C622  | 065G060310512K A | 9JR6500000492 | CAP 0603 1UF 10% 16V X7R            |
| C4251 | 065G060310512K T | 9JR6500000253 | CAP 0603 1UF 10% 16V X7R            |
| C4208 | 065G060310512K T | 9JR6500000253 | CAP 0603 1UF 10% 16V X7R            |
| C502  | 065G060310512K T | 9JR6500000253 | CAP 0603 1UF 10% 16V X7R            |
| C504  | 065G060310512K T | 9JR6500000253 | CAP 0603 1UF 10% 16V X7R            |
| C703  | 065G060310512K T | 9JR6500000253 | CAP 0603 1UF 10% 16V X7R            |
| C4207 | 065G060310512K T | 9JR6500000253 | CAP 0603 1UF 10% 16V X7R            |
| C4206 | 065G060310512K T | 9JR6500000253 | CAP 0603 1UF 10% 16V X7R            |

|       |                  |               |                                    |
|-------|------------------|---------------|------------------------------------|
| C4205 | 065G060310512K T | 9JR6500000253 | CAP 0603 1UF 10% 16V X7R           |
| C4204 | 065G060310512K T | 9JR6500000253 | CAP 0603 1UF 10% 16V X7R           |
| C1200 | 065G060310512K T | 9JR6500000253 | CAP 0603 1UF 10% 16V X7R           |
| C1151 | 065G060310512K T | 9JR6500000253 | CAP 0603 1UF 10% 16V X7R           |
| C709  | 065G060310512K T | 9JR6500000253 | CAP 0603 1UF 10% 16V X7R           |
| C753  | 065G060310512K T | 9JR6500000253 | CAP 0603 1UF 10% 16V X7R           |
| C757  | 065G060310512K T | 9JR6500000253 | CAP 0603 1UF 10% 16V X7R           |
| C760  | 065G060310512K T | 9JR6500000253 | CAP 0603 1UF 10% 16V X7R           |
| C1171 | 065G060310605M T | 9JR6500000466 | CAP 0603 10UF 20% 6.3V X5R         |
| C1177 | 065G060310605M T | 9JR6500000466 | CAP 0603 10UF 20% 6.3V X5R         |
| C1231 | 065G060310605M T | 9JR6500000466 | CAP 0603 10UF 20% 6.3V X5R         |
| C1234 | 065G060310605M T | 9JR6500000466 | CAP 0603 10UF 20% 6.3V X5R         |
| C4103 | 065G060310605M T | 9JR6500000466 | CAP 0603 10UF 20% 6.3V X5R         |
| C4104 | 065G060310605M T | 9JR6500000466 | CAP 0603 10UF 20% 6.3V X5R         |
| C701  | 065G060310605M T | 9JR6500000466 | CAP 0603 10UF 20% 6.3V X5R         |
| C1311 | 065G060322131J Y | 9JR6500000177 | CAP CHIP 0603 220P 50V NP0 +/-5%   |
| C679  | 065G060322232K Y | 9JR6500000258 | CAP CHIP 0603 2N2 50V X7R +/-10%   |
| C4255 | 065G0603225A5K 3 | 9JR6500001438 | CAP CHIP 0603 2.2UF K 10V X5R      |
| C625  | 065G0603225A5K 3 | 9JR6500001438 | CAP CHIP 0603 2.2UF K 10V X5R      |
| C4260 | 065G060327031J Y | 9JR6500000323 | CAP CHIP 0603 27P 50V NP0 +/-5%    |
| C4261 | 065G060327031J Y | 9JR6500000323 | CAP CHIP 0603 27P 50V NP0 +/-5%    |
| C1183 | 065G060333031J Y | 9JR6500000290 | CAP CHIP 0603 33P 50V NP0 +/-5%    |
| C683  | 065G060333332K Y | 9JR6500001439 | CAP CHIP 0603 33N 50V X7R +/-10%   |
| C685  | 065G060333332K Y | 9JR6500001439 | CAP CHIP 0603 33N 50V X7R +/-10%   |
| C691  | 065G060333332K Y | 9JR6500001439 | CAP CHIP 0603 33N 50V X7R +/-10%   |
| C699  | 065G060333332K Y | 9JR6500001439 | CAP CHIP 0603 33N 50V X7R +/-10%   |
| C668  | 065G060347031J Y | 9JR6500000263 | CAP 0603 47PF 5% 50V NP0           |
| C663  | 065G060347031J Y | 9JR6500000263 | CAP 0603 47PF 5% 50V NP0           |
| C1185 | 065G060347031J Y | 9JR6500000263 | CAP 0603 47PF 5% 50V NP0           |
| C1019 | 065G060347131J Y | 9JR6500000264 | CAP CHIP 0603 470P 50V NP0 +/-5%   |
| C1021 | 065G060347131J Y | 9JR6500000264 | CAP CHIP 0603 470P 50V NP0 +/-5%   |
| C1022 | 065G060347131J Y | 9JR6500000264 | CAP CHIP 0603 470P 50V NP0 +/-5%   |
| C1024 | 065G060347131J Y | 9JR6500000264 | CAP CHIP 0603 470P 50V NP0 +/-5%   |
| C690  | 065G060347232K A | 9JR6500000474 | CAP CHIP 0603 4.7NF K 50V X7R      |
| C693  | 065G060347232K A | 9JR6500000474 | CAP CHIP 0603 4.7NF K 50V X7R      |
| C1189 | 065G0603475A5K M | 9JR6500001440 | CAP CHIP 0603 4.7UF K 10V X5R      |
| C4161 | 065G0603475A5K T | 9JR6500000421 | CAP CHIP 0603 4.7UF K 10V X5R      |
| C4200 | 065G0603475A5K T | 9JR6500000421 | CAP CHIP 0603 4.7UF K 10V X5R      |
| C607  | 065G0603475A5K T | 9JR6500000421 | CAP CHIP 0603 4.7UF K 10V X5R      |
| C615  | 065G0603475A5K T | 9JR6500000421 | CAP CHIP 0603 4.7UF K 10V X5R      |
| C754  | 065G0603475A5K T | 9JR6500000421 | CAP CHIP 0603 4.7UF K 10V X5R      |
| C1323 | 065G060356031J Y | 9JR6500000518 | CAP CHIP 0603 56P 50V NP0 +/-5%    |
| C1324 | 065G060356031J Y | 9JR6500000518 | CAP CHIP 0603 56P 50V NP0 +/-5%    |
| C1307 | 065G060356931D Y | 9JR6500001441 | CAP CHIP 0603 5P6 50V NP0 +/-0.5PF |
| C1316 | 065G060356931D Y | 9JR6500001441 | CAP CHIP 0603 5P6 50V NP0 +/-0.5PF |
| C692  | 065G080510512K T | 9JR6500001445 | CAP CHIP 0805 1UF K 16V X7R        |
| C670  | 065G080510512K T | 9JR6500001445 | CAP CHIP 0805 1UF K 16V X7R        |
| C661  | 065G080510532K M | 9JR6500001447 | CAP 0805 1UF 10% 50V X7R           |
| C662  | 065G080510532K M | 9JR6500001447 | CAP 0805 1UF 10% 50V X7R           |
| C678  | 065G080510532K M | 9JR6500001447 | CAP 0805 1UF 10% 50V X7R           |
| C698  | 065G080510532K M | 9JR6500001447 | CAP 0805 1UF 10% 50V X7R           |
| C769  | 065G080510615K 3 | 9JR6500001448 | CAP CHIP 0805 10U 16V X5R +/-10%   |
| C762  | 065G080510615K 3 | 9JR6500001448 | CAP CHIP 0805 10U 16V X5R +/-10%   |
| C761  | 065G080510615K 3 | 9JR6500001448 | CAP CHIP 0805 10U 16V X5R +/-10%   |
| C708  | 065G080510615K 3 | 9JR6500001448 | CAP CHIP 0805 10U 16V X5R +/-10%   |
| C409  | 065G080510615K 3 | 9JR6500001448 | CAP CHIP 0805 10U 16V X5R +/-10%   |
| C1227 | 065G080510615K 3 | 9JR6500001448 | CAP CHIP 0805 10U 16V X5R +/-10%   |
| C1225 | 065G080510615K 3 | 9JR6500001448 | CAP CHIP 0805 10U 16V X5R +/-10%   |
| C611  | 065G080510615K T | 9JR6500000406 | CHIP 10UF 16V X5R 0805             |
| C612  | 065G080510615K T | 9JR6500000406 | CHIP 10UF 16V X5R 0805             |
| C613  | 065G080510615K T | 9JR6500000406 | CHIP 10UF 16V X5R 0805             |
| C614  | 065G080510615K T | 9JR6500000406 | CHIP 10UF 16V X5R 0805             |
| C616  | 065G080510615K T | 9JR6500000406 | CHIP 10UF 16V X5R 0805             |
| C618  | 065G080510615K T | 9JR6500000406 | CHIP 10UF 16V X5R 0805             |
| C619  | 065G080510615K T | 9JR6500000406 | CHIP 10UF 16V X5R 0805             |
| C624  | 065G080510615K T | 9JR6500000406 | CHIP 10UF 16V X5R 0805             |
| C650  | 065G080510615K T | 9JR6500000406 | CHIP 10UF 16V X5R 0805             |
| C682  | 065G080510615K T | 9JR6500000406 | CHIP 10UF 16V X5R 0805             |



|        |                  |               |                                        |
|--------|------------------|---------------|----------------------------------------|
| C687   | 065G080510615K T | 9JR6500000406 | CHIP 10UF 16V X5R 0805                 |
| C1007  | 065G080510615K T | 9JR6500000406 | CHIP 10UF 16V X5R 0805                 |
| C1008  | 065G080510615K T | 9JR6500000406 | CHIP 10UF 16V X5R 0805                 |
| C1163  | 065G080510615K T | 9JR6500000406 | CHIP 10UF 16V X5R 0805                 |
| C1165  | 065G080510615K T | 9JR6500000406 | CHIP 10UF 16V X5R 0805                 |
| C1178  | 065G080510615K T | 9JR6500000406 | CHIP 10UF 16V X5R 0805                 |
| C1180  | 065G080510615K T | 9JR6500000406 | CHIP 10UF 16V X5R 0805                 |
| C4152  | 065G080510615K T | 9JR6500000406 | CHIP 10UF 16V X5R 0805                 |
| C4163  | 065G080510615K T | 9JR6500000406 | CHIP 10UF 16V X5R 0805                 |
| C4172  | 065G080510615K T | 9JR6500000406 | CHIP 10UF 16V X5R 0805                 |
| C4203  | 065G080510615K T | 9JR6500000406 | CHIP 10UF 16V X5R 0805                 |
| C605   | 065G080510615K T | 9JR6500000406 | CHIP 10UF 16V X5R 0805                 |
| C1303  | 065G0805106A5K T | 9JR6500000424 | CHIP 10UF 10V X5R 0805                 |
| C501   | 065G0805106A5K T | 9JR6500000424 | CHIP 10UF 10V X5R 0805                 |
| C719   | 065G0805106A5K T | 9JR6500000424 | CHIP 10UF 10V X5R 0805                 |
| C724   | 065G0805106A5K T | 9JR6500000424 | CHIP 10UF 10V X5R 0805                 |
| C725   | 065G0805106A5K T | 9JR6500000424 | CHIP 10UF 10V X5R 0805                 |
| C729   | 065G0805106A5K T | 9JR6500000424 | CHIP 10UF 10V X5R 0805                 |
| C603   | 065G080547515K T | 9JR6500000447 | CAP CHIP 0805 4.7UF K 16V X5R          |
| C677   | 065G0805475A2K T | 9JR6500000295 | CAP CHIP 0805 4.7UF K 10V X7R          |
| C759   | 065G1206226A5K T | 9JR6500000429 | CAP CHIP1206 22UF K 10V X5R            |
| C758   | 065G1206226A5K T | 9JR6500000429 | CAP CHIP1206 22UF K 10V X5R            |
| C734   | 065G1206226A5K T | 9JR6500000429 | CAP CHIP1206 22UF K 10V X5R            |
| C732   | 065G1206226A5K T | 9JR6500000429 | CAP CHIP1206 22UF K 10V X5R            |
| C723   | 065G1206226A5K T | 9JR6500000429 | CAP CHIP1206 22UF K 10V X5R            |
| C721   | 065G1206226A5K T | 9JR6500000429 | CAP CHIP1206 22UF K 10V X5R            |
| C714   | 065G1206226A5K T | 9JR6500000429 | CAP CHIP1206 22UF K 10V X5R            |
| C713   | 065G1206226A5K T | 9JR6500000429 | CAP CHIP1206 22UF K 10V X5R            |
| C736   | 065G120647535K T | 9JR6500001456 | CAP 1206 4.7UF 10% 50V X5R             |
| C728   | 065G120647535K T | 9JR6500001456 | CAP 1206 4.7UF 10% 50V X5R             |
| C712   | 065G120647535K T | 9JR6500001456 | CAP 1206 4.7UF 10% 50V X5R             |
| C657   | 065G120647535K T | 9JR6500001456 | CAP 1206 4.7UF 10% 50V X5R             |
| C602   | 065G120647535K T | 9JR6500001456 | CAP 1206 4.7UF 10% 50V X5R             |
| C4191  | 067G 3112213CT   | 9JR6700000214 | EC SMD 220UF 16V HV 6.3*7.7            |
| C700   | 067G 3112214CT   | 9JR6700000223 | EC SMD 220UF 25V HV 8*10.5             |
| C656   | 067G 3112217CT   | 9JR6700000215 | EC SMD 220UF 20% 50V HV 10*10.5        |
| C4169  | 067G 3113311CT   | 9JR6700000242 | EC SMD 330UF 20% 6.3V 6.3*7.7          |
| C702   | 067G 3114713CT   | 9JR6700000344 | EC SMD 470UF 16V HV 8X10MM             |
| C608   | 067G311C4704CT   | 9JR6700000244 | EC SMD 47UF 20% 25V JV 6.3*7.7         |
| C752   | 067G311R1013CT   | 9JR6700000245 | EC SMD 100UF 20% 16V ZV 6.3*5.5        |
| C405   | 067G311R1013CT   | 9JR6700000245 | EC SMD 100UF 20% 16V ZV 6.3*5.5        |
| C730   | 067G311R2213CT   | 9JR6700000246 | EC SMD 220UF 20% 16V ZV 6.3*7.7        |
| U409   | 070GHDCP500HDC   | 9JR7000000003 | HDCP CODE                              |
| FB751  | 071G 56A221 TA   | 9JR7100000039 | IND FXD 0805 EMI 100MHZ 220R R         |
| FB708  | 071G 56A221 TA   | 9JR7100000039 | IND FXD 0805 EMI 100MHZ 220R R         |
| FB707  | 071G 56A221 TA   | 9JR7100000039 | IND FXD 0805 EMI 100MHZ 220R R         |
| FB706  | 071G 56A221 TA   | 9JR7100000039 | IND FXD 0805 EMI 100MHZ 220R R         |
| FB705  | 071G 56A221 TA   | 9JR7100000039 | IND FXD 0805 EMI 100MHZ 220R R         |
| FB608  | 071G 56A221 TA   | 9JR7100000039 | IND FXD 0805 EMI 100MHZ 220R R         |
| FB607  | 071G 56A221 TA   | 9JR7100000039 | IND FXD 0805 EMI 100MHZ 220R R         |
| FB606  | 071G 56A221 TA   | 9JR7100000039 | IND FXD 0805 EMI 100MHZ 220R R         |
| FB404  | 071G 56A221 TA   | 9JR7100000039 | IND FXD 0805 EMI 100MHZ 220R R         |
| FB1006 | 071G 56A221 TA   | 9JR7100000039 | IND FXD 0805 EMI 100MHZ 220R R         |
| FB702  | 071G 59A121 TA   | 9JR7100000031 | CHIP BEAD 120R/3000MA HCB1608KF-121T30 |
| FB701  | 071G 59A121 TA   | 9JR7100000031 | CHIP BEAD 120R/3000MA HCB1608KF-121T30 |
| FB505  | 071G 59A121 TA   | 9JR7100000031 | CHIP BEAD 120R/3000MA HCB1608KF-121T30 |
| FB504  | 071G 59A121 TA   | 9JR7100000031 | CHIP BEAD 120R/3000MA HCB1608KF-121T30 |
| FB406  | 071G 59A121 TA   | 9JR7100000031 | CHIP BEAD 120R/3000MA HCB1608KF-121T30 |
| FB405  | 071G 59A121 TA   | 9JR7100000031 | CHIP BEAD 120R/3000MA HCB1608KF-121T30 |
| FB1157 | 071G 59C601 TA   | 9JR7100000032 | CHIP BEAD 600R/200MA FCM1608K-601T02   |
| FB1158 | 071G 59C601 TA   | 9JR7100000032 | CHIP BEAD 600R/200MA FCM1608K-601T02   |
| FB4152 | 071G 59C601 TA   | 9JR7100000032 | CHIP BEAD 600R/200MA FCM1608K-601T02   |
| FB1160 | 071G 59C800 M    | 9JR7100000103 | CHIP BEAD 80 OHM 0603 400MA            |
| FB1159 | 071G 59C800 M    | 9JR7100000103 | CHIP BEAD 80 OHM 0603 400MA            |
| FB1156 | 071G 59C800 M    | 9JR7100000103 | CHIP BEAD 80 OHM 0603 400MA            |
| FB1155 | 071G 59C800 M    | 9JR7100000103 | CHIP BEAD 80 OHM 0603 400MA            |
| FB1154 | 071G 59C800 M    | 9JR7100000103 | CHIP BEAD 80 OHM 0603 400MA            |
| FB1153 | 071G 59C800 M    | 9JR7100000103 | CHIP BEAD 80 OHM 0603 400MA            |

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| FB1152 | 071G 59C800 M  | 9JR7100000103 | CHIP BEAD 80 OHM 0603 400MA            |
| FB1151 | 071G 59C800 M  | 9JR7100000103 | CHIP BEAD 80 OHM 0603 400MA            |
| FB1054 | 071G 59C800 M  | 9JR7100000103 | CHIP BEAD 80 OHM 0603 400MA            |
| FB1053 | 071G 59C800 M  | 9JR7100000103 | CHIP BEAD 80 OHM 0603 400MA            |
| FB1052 | 071G 59C800 M  | 9JR7100000103 | CHIP BEAD 80 OHM 0603 400MA            |
| FB4151 | 071G 59D121 TA | 9JR7100000033 | CHIP BEAD 120R/600MA FCM1608KF-121T06  |
| FB1034 | 071G 59D121 TA | 9JR7100000033 | CHIP BEAD 120R/600MA FCM1608KF-121T06  |
| FB1017 | 071G 59D121 TA | 9JR7100000033 | CHIP BEAD 120R/600MA FCM1608KF-121T06  |
| FB1016 | 071G 59D121 TA | 9JR7100000033 | CHIP BEAD 120R/600MA FCM1608KF-121T06  |
| FB1015 | 071G 59D121 TA | 9JR7100000033 | CHIP BEAD 120R/600MA FCM1608KF-121T06  |
| FB1014 | 071G 59D121 TA | 9JR7100000033 | CHIP BEAD 120R/600MA FCM1608KF-121T06  |
| FB1013 | 071G 59D121 TA | 9JR7100000033 | CHIP BEAD 120R/600MA FCM1608KF-121T06  |
| FB1012 | 071G 59D121 TA | 9JR7100000033 | CHIP BEAD 120R/600MA FCM1608KF-121T06  |
| FB501  | 071G 59S601 T  | 9JR7100000035 | CHIP BEAD 600R/500MA MMZ1608S601CT     |
| FB503  | 071G 59S601 T  | 9JR7100000035 | CHIP BEAD 600R/500MA MMZ1608S601CT     |
| L1051  | 073G 63128 T   | 9JR7300000113 | CHIP INDUCTOR 0.12UH 10% MLF1608DR12KT |
| L1053  | 073G 63128 T   | 9JR7300000113 | CHIP INDUCTOR 0.12UH 10% MLF1608DR12KT |
| L1002  | 073G 6318910T  | 9JR7300000159 | CHIP INDUCTOR 1U8 10% MLF1608A1R8KT    |
| L1001  | 073G 6318910T  | 9JR7300000159 | CHIP INDUCTOR 1U8 10% MLF1608A1R8KT    |
| L1050  | 073G 6322810T  | 9JR7300000108 | CHIP INDUCROR 0.22UF 10%               |
| L702   | 073G253S 96 M1 | 9JR7300000115 | SMD CHOKE 1.5UH 10% 0.015R 9A          |
| L701   | 073G253S 96 M1 | 9JR7300000115 | SMD CHOKE 1.5UH 10% 0.015R 9A          |
| CN506  | 088G 34021A VA | 9JR8800000175 | HDMI HEADER V/T 21P BLACK H=10.5 HF    |
| CN502  | 088G 34021A VA | 9JR8800000175 | HDMI HEADER V/T 21P BLACK H=10.5 HF    |
| D511   | 093G 60505     | 9JR9300000134 | SCHOTTKY BAT54C 0.2A 30V SOT-23        |
| D4155  | 093G 64 33     | 9JR9300000113 | SWITCHING BAV99 0.2A 85V SOT-23        |
| D4050  | 093G 64 33     | 9JR9300000113 | SWITCHING BAV99 0.2A 85V SOT-23        |
| D4051  | 093G 64 33     | 9JR9300000113 | SWITCHING BAV99 0.2A 85V SOT-23        |
| D4151  | 093G 64 33     | 9JR9300000113 | SWITCHING BAV99 0.2A 85V SOT-23        |
| D4152  | 093G 64 33     | 9JR9300000113 | SWITCHING BAV99 0.2A 85V SOT-23        |
| X4150  | 093G 22S920 C  | 9JR9300000184 | CRYSTAL 27MHZ 27M 30PPM 20PF           |
| X1001  | 093G 22S921 C  | 9JR9300000125 | CRYSTAL 27MHZ 20P SMD-5.0X3.2          |
| ZD1152 | 093G 39S 34 T  | 9JR9300000102 | UDZSNP5.6B ROHM                        |
| ZD1153 | 093G 39S 34 T  | 9JR9300000102 | UDZSNP5.6B ROHM                        |
| ZD1154 | 093G 39S 34 T  | 9JR9300000102 | UDZSNP5.6B ROHM                        |
| ZD1155 | 093G 39S 34 T  | 9JR9300000102 | UDZSNP5.6B ROHM                        |
| ZD1160 | 093G 39S 34 T  | 9JR9300000102 | UDZSNP5.6B ROHM                        |
| ZD1161 | 093G 39S 34 T  | 9JR9300000102 | UDZSNP5.6B ROHM                        |
| ZD1162 | 093G 39S 34 T  | 9JR9300000102 | UDZSNP5.6B ROHM                        |
| ZD1163 | 093G 39S 34 T  | 9JR9300000102 | UDZSNP5.6B ROHM                        |
| ZD1164 | 093G 39S 34 T  | 9JR9300000102 | UDZSNP5.6B ROHM                        |
| ZD1065 | 093G 39S 34 T  | 9JR9300000102 | UDZSNP5.6B ROHM                        |
| ZD1066 | 093G 39S 34 T  | 9JR9300000102 | UDZSNP5.6B ROHM                        |
| ZD1067 | 093G 39S 34 T  | 9JR9300000102 | UDZSNP5.6B ROHM                        |
| ZD1068 | 093G 39S 34 T  | 9JR9300000102 | UDZSNP5.6B ROHM                        |
| ZD1069 | 093G 39S 34 T  | 9JR9300000102 | UDZSNP5.6B ROHM                        |
| ZD1070 | 093G 39S 34 T  | 9JR9300000102 | UDZSNP5.6B ROHM                        |
| ZD1072 | 093G 39S 34 T  | 9JR9300000102 | UDZSNP5.6B ROHM                        |
| ZD1150 | 093G 39S 34 T  | 9JR9300000102 | UDZSNP5.6B ROHM                        |
| ZD1151 | 093G 39S 34 T  | 9JR9300000102 | UDZSNP5.6B ROHM                        |
| ZD1071 | 093G 39S 40 T  | 9JR9300000103 | RLZ 13B LLDS                           |
| D1060  | 093G 64S900 T  | 9JR9300000107 | DIODE BAS316 SOD-323 PHILIPS           |
| D1059  | 093G 64S900 T  | 9JR9300000107 | DIODE BAS316 SOD-323 PHILIPS           |
| D1058  | 093G 64S900 T  | 9JR9300000107 | DIODE BAS316 SOD-323 PHILIPS           |
| D1057  | 093G 64S900 T  | 9JR9300000107 | DIODE BAS316 SOD-323 PHILIPS           |
| D1056  | 093G 64S900 T  | 9JR9300000107 | DIODE BAS316 SOD-323 PHILIPS           |
| D1055  | 093G 64S900 T  | 9JR9300000107 | DIODE BAS316 SOD-323 PHILIPS           |
| D1054  | 093G 64S900 T  | 9JR9300000107 | DIODE BAS316 SOD-323 PHILIPS           |
| D1061  | 093G 64S900 T  | 9JR9300000107 | DIODE BAS316 SOD-323 PHILIPS           |
| D1160  | 093G 64S900 T  | 9JR9300000107 | DIODE BAS316 SOD-323 PHILIPS           |
| D1161  | 093G 64S900 T  | 9JR9300000107 | DIODE BAS316 SOD-323 PHILIPS           |
| D1162  | 093G 64S900 T  | 9JR9300000107 | DIODE BAS316 SOD-323 PHILIPS           |
| D1163  | 093G 64S900 T  | 9JR9300000107 | DIODE BAS316 SOD-323 PHILIPS           |
| D1164  | 093G 64S900 T  | 9JR9300000107 | DIODE BAS316 SOD-323 PHILIPS           |
| D1165  | 093G 64S900 T  | 9JR9300000107 | DIODE BAS316 SOD-323 PHILIPS           |
| D502   | 093G 64S900 T  | 9JR9300000107 | DIODE BAS316 SOD-323 PHILIPS           |
| D506   | 093G 64S900 T  | 9JR9300000107 | DIODE BAS316 SOD-323 PHILIPS           |
| D507   | 093G 64S900 T  | 9JR9300000107 | DIODE BAS316 SOD-323 PHILIPS           |

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| D509   | 093G 64S900 T      | 9JR9300000107 | DIODE BAS316 SOD-323 PHILIPS            |
| D510   | 093G 64S900 T      | 9JR9300000107 | DIODE BAS316 SOD-323 PHILIPS            |
| D601   | 093G 64S900 T      | 9JR9300000107 | DIODE BAS316 SOD-323 PHILIPS            |
| D604   | 093G 64S900 T      | 9JR9300000107 | DIODE BAS316 SOD-323 PHILIPS            |
| D605   | 093G 64S900 T      | 9JR9300000107 | DIODE BAS316 SOD-323 PHILIPS            |
| D606   | 093G 64S900 T      | 9JR9300000107 | DIODE BAS316 SOD-323 PHILIPS            |
| D1062  | 093G 64S900 T      | 9JR9300000107 | DIODE BAS316 SOD-323 PHILIPS            |
| D1063  | 093G 64S900 T      | 9JR9300000107 | DIODE BAS316 SOD-323 PHILIPS            |
| D1064  | 093G 64S900 T      | 9JR9300000107 | DIODE BAS316 SOD-323 PHILIPS            |
| D1065  | 093G 64S900 T      | 9JR9300000107 | DIODE BAS316 SOD-323 PHILIPS            |
| D1066  | 093G 64S900 T      | 9JR9300000107 | DIODE BAS316 SOD-323 PHILIPS            |
| D1150  | 093G 64S900 T      | 9JR9300000107 | DIODE BAS316 SOD-323 PHILIPS            |
| D1151  | 093G 64S900 T      | 9JR9300000107 | DIODE BAS316 SOD-323 PHILIPS            |
| D1152  | 093G 64S900 T      | 9JR9300000107 | DIODE BAS316 SOD-323 PHILIPS            |
| D1153  | 093G 64S900 T      | 9JR9300000107 | DIODE BAS316 SOD-323 PHILIPS            |
| D1154  | 093G 64S900 T      | 9JR9300000107 | DIODE BAS316 SOD-323 PHILIPS            |
| D1155  | 093G 64S900 T      | 9JR9300000107 | DIODE BAS316 SOD-323 PHILIPS            |
| D1156  | 093G 64S900 T      | 9JR9300000107 | DIODE BAS316 SOD-323 PHILIPS            |
| D1159  | 093G 64S900 T      | 9JR9300000107 | DIODE BAS316 SOD-323 PHILIPS            |
| D1158  | 093G 64S900 T      | 9JR9300000107 | DIODE BAS316 SOD-323 PHILIPS            |
| D1157  | 093G 64S900 T      | 9JR9300000107 | DIODE BAS316 SOD-323 PHILIPS            |
| CN408  | 311GW125F30ACH     | 9JR3110000010 | WAFER 1.25MM 30P WITH LOCK              |
| E715   | 715G4504M2A000005B | 9JR7150000004 | MAIN BOARD PCB                          |
| E715   | 715G4504M2A000005N | 9JR7150000005 | MAIN BOARD PCB                          |
| E715   | 715G4504M2A000005X | 9JR7150000003 | MAIN BOARD PCB                          |
|        | Q45G 99606 25 ESD  | 9JR4500000128 | INSULATING PE BAG                       |
|        | 705TQBSCN12001     | 9JR7050001002 | POWER BOARD ASS'Y                       |
| M00112 | 0M1G1730 8120 RA   | 9JR0100000797 | SCREW 3X8                               |
| M00112 | 0M1G1730 8120 XL   | 9JR0100000798 | SCREW 3X8                               |
|        | ADTV12415AF4       | 9JR9900000541 | POWER BOARD                             |
|        | 040G 45762412B     | 9JR4000000645 | CBPC LABEL                              |
| CND1   | 009G6005 1         | 9JR0900000003 | GND TERMINAL                            |
| GND2   | 009G6005 1         | 9JR0900000003 | GND TERMINAL                            |
| GND3   | 009G6005 1         | 9JR0900000003 | GND TERMINAL                            |
| GND4   | 009G6005 1         | 9JR0900000003 | GND TERMINAL                            |
| IC9303 | 056G 139 3B        | 9JR5600000083 | PC123Y82FZOF SHARP                      |
| IC9302 | 056G 139 3B        | 9JR5600000083 | PC123Y82FZOF SHARP                      |
| IC9106 | 056G 139 3B        | 9JR5600000083 | PC123Y82FZOF SHARP                      |
| IC9301 | 056G 379121        | 9JR5600000310 | IC STR- A6069H DIP-8                    |
| RV9902 | 061G 46561 WB      | 9JR6100000963 | VARISTOR 560V 10% 14                    |
| RV9901 | 061G 46561 WB      | 9JR6100000963 | VARISTOR 560V 10% 14                    |
| NR9901 | 061G 58159MYW 8A   | 9JR6100002264 | NTCR 1.5R 20% 3.6W SCK151R58MTY501      |
| NR9902 | 061G 58159MYW 8A   | 9JR6100002264 | NTCR 1.5R 20% 3.6W SCK151R58MTY501      |
| R9801  | 061G3SWJ70759B SY  | 9JR6100002361 | RST WD 0.07R 5% 3W                      |
| C9910  | 063G107K334AUZ     | 9JR6300000033 | CAP X2 330NF 10% 305V                   |
| C9911  | 063G107K474AUZ     | 9JR6300000031 | CAP X2 470NF 10% 305V                   |
| C9160  | 067G515Z561 6H     | 9JR6700000349 | EC 560UF 20% 35V LSL561M1VF25VR6HTYLZ   |
| C9161  | 067G515Z561 6H     | 9JR6700000349 | EC 560UF 20% 35V LSL561M1VF25VR6HTYLZ   |
| C9164  | 067G515Z561 6H     | 9JR6700000349 | EC 560UF 20% 35V LSL561M1VF25VR6HTYLZ   |
| FB9805 | 071G 55906         | 9JR7100000023 | FERRITE CORE 510R C8B R6H 6X9.2(A)      |
| FB9806 | 071G 55906         | 9JR7100000023 | FERRITE CORE 510R C8B R6H 6X9.2(A)      |
| L9903  | 073G 174231 X      | 9JR7300000160 | LINE FILTER 12MH MIN 3LFT18106-123M     |
| L9901  | 073G 174231 X      | 9JR7300000160 | LINE FILTER 12MH MIN 3LFT18106-123M     |
| L9801  | 073G 174276 YS     | 9JR7300000161 | PFC CHOKE 240UH 10% ATQ32 2A YS04110095 |
| T9101  | 080GL52P 55 YS     | 9JR8000000031 | X'FMR 1MH 10% 260UH EFD5056 YS04160399  |
|        | 0Q1G 340 8140      | 9JR0100000803 | SCREW 4.0X8.0                           |
| C9820  | 363G210K105GZP     | 9JR3630000001 | CAP MPP 1UF 10% 450V                    |
| C9157  | 363G211J2235ZA0001 | 9JR3630000002 | CAP MPP 22NF 5% 1KV R75QI2220ZH00J      |
| C9801  | 367G215X470PKZ000S | 9JR3670000001 | EC 47UF 20% 450V LF2W470M6B1052DLRV     |
| C9805  | 367G215X470PKZ000S | 9JR3670000001 | EC 47UF 20% 450V LF2W470M6B1052DLRV     |
| C9804  | 367G215X470PKZ000S | 9JR3670000001 | EC 47UF 20% 450V LF2W470M6B1052DLRV     |
| C9802  | 367G215X470PKZ000S | 9JR3670000001 | EC 47UF 20% 450V LF2W470M6B1052DLRV     |
| L9106  | 373G0253247X00     | 9JR3730000001 | CHOKE COIL 3UH 15% DR8*8 5A             |
| L9103  | 373G0253247X00     | 9JR3730000001 | CHOKE COIL 3UH 15% DR8*8 5A             |
| L9104  | 373G0253247X00     | 9JR3730000001 | CHOKE COIL 3UH 15% DR8*8 5A             |
| L9304  | 373G0253247X00     | 9JR3730000001 | CHOKE COIL 3UH 15% DR8*8 5A             |
| T9301  | 380GL52P058CP0     | 9JR3800000001 | X'FMR 1MH 10% 40UH EQ30 T020658-6       |
| CN901  | 387G050147F0ST     | 9JR3870000001 | AC SOKET R/A 2P 12DEGREE H=12.81        |

|        |                |               |                                         |
|--------|----------------|---------------|-----------------------------------------|
| D9802  | 393G0052921    | 9JR3930000001 | RECTIFIER IN5408G-10 X0 3A 1000V        |
| CN906  | 395G820H15XM02 | 9JR3950000004 | HARNESS 15P(SANW)-14P(PH) 230MM         |
| CN907  | 395G825H13XM04 | 9JR3950000005 | HARNESS 13P(2506)-13P(SCNW) 100MM       |
|        | 705TQB57048    | 9JR7050000994 | Q9101 Q9102 ASS"Y                       |
| Q9101  | 057G 667914    | 9JR5700000077 | MOSFET TK10A50D TO220                   |
| Q9102  | 057G 667914    | 9JR5700000077 | MOSFET TK10A50D TO220                   |
|        | 0M1G1730 8120  | 9JR0100000796 | SCREW 3X8                               |
|        | Q90T0237 1     | 9JR9000000024 | HEAT SINK                               |
|        | 705TQB84008    | 9JR7050000995 | F9901 ASS"Y                             |
|        | 084G 34 14     | 9JR8400000019 | FUSE CLIP 5*20MM                        |
| F9901  | 084G 41 6 C    | 9JR8400000020 | FUSE 6.3A 250V UDA6.30(PF)              |
|        | 705TQB84009    | 9JR7050000996 | F9902 ASS"Y                             |
|        | 084G 34 14     | 9JR8400000019 | FUSE CLIP 5*20MM                        |
| F9902  | 084G 41 6 C    | 9JR8400000020 | FUSE 6.3A 250V UDA6.30(PF)              |
|        | 705TQB93112    | 9JR7050000997 | D9801 Q9801 ASS"Y                       |
| Q9801  | 057G 667A04    | 9JR5700000175 | MOSFET STF24NM60N 17A 600V 30W TO-220FP |
| D9801  | 093G 52905     | 9JR9300000400 | DIODE FMNS-1106S TO-220                 |
|        | 0M1G1730 8120  | 9JR0100000796 | SCREW 3X8                               |
|        | Q90T0236 2     | 9JR9000000022 | HEAT SINK                               |
|        | 705TQB93113    | 9JR7050000998 | D9115 D9116 ASS"Y                       |
| D9115  | 093G 60987     | 9JR9300000401 | SCHOTTKY FMEN-2308 30A 80V TO-220F      |
| D9116  | 093G 60987     | 9JR9300000401 | SCHOTTKY FMEN-2308 30A 80V TO-220F      |
|        | 0M1G1730 8120  | 9JR0100000796 | SCREW 3X8                               |
|        | Q90T0236 4     | 9JR9000000023 | HEAT SINK                               |
|        | 705TQB93114    | 9JR7050000999 | D9308 ASS"Y                             |
| D9308  | 093G1506 2     | 9JR9300000408 | SCHOTTKY FMW-2156 15A 60V TO-220        |
|        | 0M1G1730 8120  | 9JR0100000796 | SCREW 3X8                               |
|        | Q90T0236 1     | 9JR9000000023 | HEAT SINK                               |
|        | 705TQB93125    | 9JR7050001000 | BD9901 ASS"Y                            |
| BD9901 | 093G 50460940  | 9JR9300000399 | BRIDGE KBJ1008G-FU 10A 800V KBJ         |
|        | 0M1G1730 8120  | 9JR0100000796 | SCREW 3X8                               |
|        | Q90T0222 7     | 9JR9000000021 | HEAT SINK                               |
|        | 709T51730QM002 | 9JR7090000002 | 5173 TM 耗材                              |
|        | 051G 6 4505    | 9JR5100000003 | GLUE_RTV                                |
|        | 055G 23524     | 9JR5500000001 | WELDING FLUX WITHOUT PB                 |
|        | Q55G 100625    | 9JR5500000006 | TIN STICK_LOW ARGENTUM                  |
| IC9801 | 056G 379204    | 9JR5600000311 | PFC R2A20113ASP SOP-8                   |
| IC9101 | 056G 379211    | 9JR5600000312 | AC/DC SSC9522S-TL SOP-18                |
| Q9103  | 057G 417 4     | 9JR5700000049 | PMBS3904/PHILIPS-SMT(04)                |
| Q9106  | 057G 417907 T  | 9JR5700000173 | TRA PMBT3906 PNP -200MA/-40V SOT-23     |
| Q9305  | 057G 417907 T  | 9JR5700000173 | TRA PMBT3906 PNP -200MA/-40V SOT-23     |
| Q9303  | 057G 419912 T  | 9JR5700000174 | TRANSISTOR 2SD1624T-TD-E PCP            |
| Q9301  | 057G 763 62    | 9JR5700000085 | FET 2N7002K 300MA/60V SOT-23            |
| Q9302  | 057G 763 62    | 9JR5700000085 | FET 2N7002K 300MA/60V SOT-23            |
| R9311  | 061G0805000 JF | 9JR6100000871 | RST CHIPR 0 OHM +-5% 1/8W FENGHUA       |
| R9111  | 061G0805000 JF | 9JR6100000871 | RST CHIPR 0 OHM +-5% 1/8W FENGHUA       |
| R9111  | 061G0805000 JT | 9JR6100000695 | RST 0805 0.05R MAX 1/8W                 |
| R9311  | 061G0805000 JT | 9JR6100000695 | RST 0805 0.05R MAX 1/8W                 |
| R9151  | 061G0805100 JF | 9JR6100001116 | RST CHIPR 10 OHM +-5% 1/8W FENGHUA      |
| R9808  | 061G0805100 JF | 9JR6100001116 | RST CHIPR 10 OHM +-5% 1/8W FENGHUA      |
| R9103  | 061G0805100 JF | 9JR6100001116 | RST CHIPR 10 OHM +-5% 1/8W FENGHUA      |
| R9102  | 061G0805100 JF | 9JR6100001116 | RST CHIPR 10 OHM +-5% 1/8W FENGHUA      |
| R9808  | 061G0805100 JT | 9JR6100000645 | RST CHIP 10R 1/8W 5% TZAI YUAN          |
| R9102  | 061G0805100 JT | 9JR6100000645 | RST CHIP 10R 1/8W 5% TZAI YUAN          |
| R9103  | 061G0805100 JT | 9JR6100000645 | RST CHIP 10R 1/8W 5% TZAI YUAN          |
| R9151  | 061G0805100 JT | 9JR6100000645 | RST CHIP 10R 1/8W 5% TZAI YUAN          |
| R9139  | 061G08051000FF | 9JR6100002302 | RST CHIPR 100 OHM +-1% 1/8W FENGHUA     |
| R9139  | 061G08051000FT | 9JR6100002303 | RST CHIPR 100 OHM +-1% 1/8W             |
| R9336  | 061G08051001FF | 9JR6100002304 | RST CHIPR 1KOHM +-1% 1/8W FENGHUA       |
| R9324  | 061G08051001FF | 9JR6100002304 | RST CHIPR 1KOHM +-1% 1/8W FENGHUA       |
| R9140  | 061G08051001FF | 9JR6100002304 | RST CHIPR 1KOHM +-1% 1/8W FENGHUA       |
| R9138  | 061G08051001FF | 9JR6100002304 | RST CHIPR 1KOHM +-1% 1/8W FENGHUA       |
| R9138  | 061G08051001FT | 9JR6100000696 | RST CHIP 1K 1/8W 1%                     |
| R9140  | 061G08051001FT | 9JR6100000696 | RST CHIP 1K 1/8W 1%                     |
| R9324  | 061G08051001FT | 9JR6100000696 | RST CHIP 1K 1/8W 1%                     |
| R9336  | 061G08051001FT | 9JR6100000696 | RST CHIP 1K 1/8W 1%                     |
| R9340  | 061G08051002FT | 9JR6100000697 | RST CHIP 10K 1/8W 1%                    |
| R9308  | 061G08051002FT | 9JR6100000697 | RST CHIP 10K 1/8W 1%                    |

|        |                |               |                                         |
|--------|----------------|---------------|-----------------------------------------|
| R9155  | 061G08051002FT | 9JR6100000697 | RST CHIP 10K 1/8W 1%                    |
| R9153  | 061G08051002FT | 9JR6100000697 | RST CHIP 10K 1/8W 1%                    |
| R9340  | 061G08051002FY | 9JR6100002305 | RST CHIP 10K 1/8W 1%                    |
| R9308  | 061G08051002FY | 9JR6100002305 | RST CHIP 10K 1/8W 1%                    |
| R9155  | 061G08051002FY | 9JR6100002305 | RST CHIP 10K 1/8W 1%                    |
| R9153  | 061G08051002FY | 9JR6100002305 | RST CHIP 10K 1/8W 1%                    |
| R9304  | 061G08051003FT | 9JR6100002306 | RST CHIP 100K 1/8W 1%                   |
| R9341  | 061G08051003FT | 9JR6100002306 | RST CHIP 100K 1/8W 1%                   |
| R9341  | 061G08051003FY | 9JR6100002307 | RST CHIP 100K 1/8W 1%                   |
| R9304  | 061G08051003FY | 9JR6100002307 | RST CHIP 100K 1/8W 1%                   |
| R9813  | 061G0805103 JF | 9JR6100000960 | RST CHIPR 10K OHM +-5% 1/8W FENGHUA     |
| R9813  | 061G0805103 JT | 9JR6100000895 | RST 0805 10K 5% 1/8W                    |
| R9338  | 061G08051202FT | 9JR6100000362 | RST CHIP 12K 1/8W 1%                    |
| R9338  | 061G08051202FY | 9JR6100000544 | RST CHIP 12K 1/8W 1%                    |
| R9810  | 061G08051602FF | 9JR6100002308 | RST CHIPR 16KOHM +-1% 1/8W FENGHUA      |
| R9810  | 061G08051602FT | 9JR6100002309 | RST CHIPR 16K +-1% 1/8W TZAI YUAN       |
| R9145  | 061G08051692FY | 9JR6100002310 | RST 0805 16.9K 1% 1/8W                  |
| R9101  | 061G08051800FF | 9JR6100002311 | RST CHIPR 180 OHM +-1% 1/8W FENGHUA     |
| R9101  | 061G08051800FT | 9JR6100002312 | RST 0805 180R 1% 1/8W TZAI YUAN         |
| R9809  | 061G08052000FT | 9JR6100002313 | RST CHIP 200R 1/8W 1%                   |
| R9809  | 061G08052000FY | 9JR6100002314 | RST CHIP 200R 1/8W 1%                   |
| R9333  | 061G08052001FT | 9JR6100000648 | RST CHIP 2K 1/8W 1%                     |
| R9163  | 061G08052001FT | 9JR6100000648 | RST CHIP 2K 1/8W 1%                     |
| R9163  | 061G08052001FY | 9JR6100001132 | RST CHIP 2K 1/8W 1%                     |
| R9333  | 061G08052001FY | 9JR6100001132 | RST CHIP 2K 1/8W 1%                     |
| R9339  | 061G08052002FT | 9JR6100002315 | RST CHIP 20K 1/8W 1%                    |
| R9339  | 061G08052002FY | 9JR6100001281 | RST CHIP 20K 1/8W 1%                    |
| R9805  | 061G0805204 JF | 9JR6100002316 | RST CHIPR 200KOHM +-5% 1/8W FENGHUA     |
| R9805  | 061G0805204 JT | 9JR6100001011 | RST CHIP R 200KOHM 1/8W +/-5% TZAI YUAN |
| R9334  | 061G0805221 JT | 9JR6100002317 | RST CHIP 220R 1/8W 5% TZAI YUAN         |
| R9334  | 061G0805221 JY | 9JR6100002318 | RST CHIPR 220R +-5% 1/8W YAGEO          |
| R9161  | 061G08052402FF | 9JR6100002319 | RST CHIPR 24KOHM +-1% 1/8W FENGHUA      |
| R9161  | 061G08052402FT | 9JR6100002320 | RST CHIP 24K 1/8W 1%                    |
| R9335  | 061G0805332 JF | 9JR6100002321 | RST CHIPR 3.3KOHM +-5% 1/8W FENGHUA     |
| R9335  | 061G0805332 JT | 9JR6100001034 | RST CHIP 3K3 1/8W 5% TZAI YUAN          |
| R9152  | 061G0805470 JF | 9JR6100002322 | RST CHIPR 47OHM +-5% 1/8W FENGHUA       |
| R9154  | 061G0805470 JF | 9JR6100002322 | RST CHIPR 47OHM +-5% 1/8W FENGHUA       |
| R9152  | 061G0805470 JT | 9JR6100001043 | RST CHIPR 47OHM +-5% 1/8W TZAI YUAN     |
| R9154  | 061G0805470 JT | 9JR6100001043 | RST CHIPR 47OHM +-5% 1/8W TZAI YUAN     |
| R9147  | 061G0805471 JF | 9JR6100001045 | RST CHIPR 470 OHM +-5% 1/8W FENGHUA     |
| R9149  | 061G0805471 JF | 9JR6100001045 | RST CHIPR 470 OHM +-5% 1/8W FENGHUA     |
| R9147  | 061G0805471 JT | 9JR6100002323 | RST CHIPR 470OHM +-5% 1/8W TZAI YUAN    |
| R9149  | 061G0805471 JT | 9JR6100002323 | RST CHIPR 470OHM +-5% 1/8W TZAI YUAN    |
| R9320  | 061G08055103FF | 9JR6100002324 | RST CHIPR 510K OHM +- 1% 1/8W FENGHUA   |
| R9320  | 061G08055103FT | 9JR6100002325 | RST CHIP 510K OHM 1/8W 1% TZAI YUAN     |
| R9178  | 061G0805512 JF | 9JR6100002326 | RST CHIPR 5.1KOHM +-5% 1/8W FENGHUA     |
| R9178  | 061G0805512 JT | 9JR6100002327 | RST CHIPR 5K1 +-5% 1/8W TZAI YUAN       |
| R9806  | 061G0805563 JF | 9JR6100002328 | RST CHIPR 56KOHM +-5% 1/8W FENGHUA      |
| R9806  | 061G0805563 JT | 9JR6100002329 | RST CHIPR 56K +-5% 1/8W TZAI YUAN       |
| R9337  | 061G08058201FT | 9JR6100002330 | RST CHIP 8K2 1/8W 1%                    |
| RJ9801 | 061G1206000 JF | 9JR6100001117 | RST CHIPR MAX0R05 1/4W FENGHUA          |
| RJ9802 | 061G1206000 JF | 9JR6100001117 | RST CHIPR MAX0R05 1/4W FENGHUA          |
| RJ9803 | 061G1206000 JF | 9JR6100001117 | RST CHIPR MAX0R05 1/4W FENGHUA          |
| RJ9804 | 061G1206000 JF | 9JR6100001117 | RST CHIPR MAX0R05 1/4W FENGHUA          |
| RJ9805 | 061G1206000 JF | 9JR6100001117 | RST CHIPR MAX0R05 1/4W FENGHUA          |
| RJ9302 | 061G1206000 JF | 9JR6100001117 | RST CHIPR MAX0R05 1/4W FENGHUA          |
| R9811  | 061G1206000 JF | 9JR6100001117 | RST CHIPR MAX0R05 1/4W FENGHUA          |
| R9143  | 061G1206000 JF | 9JR6100001117 | RST CHIPR MAX0R05 1/4W FENGHUA          |
| RJ9806 | 061G1206000 JF | 9JR6100001117 | RST CHIPR MAX0R05 1/4W FENGHUA          |
| RJ9806 | 061G1206000 JT | 9JR6100000662 | RST CHIPR MAX0R05 1/4W TZAI YUAN        |
| R9143  | 061G1206000 JT | 9JR6100000662 | RST CHIPR MAX0R05 1/4W TZAI YUAN        |
| RJ9804 | 061G1206000 JT | 9JR6100000662 | RST CHIPR MAX0R05 1/4W TZAI YUAN        |
| RJ9805 | 061G1206000 JT | 9JR6100000662 | RST CHIPR MAX0R05 1/4W TZAI YUAN        |
| RJ9803 | 061G1206000 JT | 9JR6100000662 | RST CHIPR MAX0R05 1/4W TZAI YUAN        |
| RJ9802 | 061G1206000 JT | 9JR6100000662 | RST CHIPR MAX0R05 1/4W TZAI YUAN        |
| RJ9801 | 061G1206000 JT | 9JR6100000662 | RST CHIPR MAX0R05 1/4W TZAI YUAN        |
| RJ9302 | 061G1206000 JT | 9JR6100000662 | RST CHIPR MAX0R05 1/4W TZAI YUAN        |
| R9811  | 061G1206000 JT | 9JR6100000662 | RST CHIPR MAX0R05 1/4W TZAI YUAN        |

|       |                |               |                                        |
|-------|----------------|---------------|----------------------------------------|
| R9160 | 061G12061002FF | 9JR6100002331 | RST CHIPR 10KOHM +-1% 1/4W FENGHUA     |
| R9307 | 061G12061002FF | 9JR6100002331 | RST CHIPR 10KOHM +-1% 1/4W FENGHUA     |
| R9160 | 061G12061002FT | 9JR6100002332 | RST CHIPR 10KOHM +-1% 1/4W 1206        |
| R9307 | 061G12061002FT | 9JR6100002332 | RST CHIPR 10KOHM +-1% 1/4W 1206        |
| R9817 | 061G12061003FT | 9JR6100002333 | RST CHIP 100K 1/8W 1%                  |
| R9817 | 061G12061003FY | 9JR6100002334 | RST CHIPR 100KOHM +-1% 1/4W YAGEO      |
| R9328 | 061G1206104 JF | 9JR6100002335 | RST CHIPR 100KOHM +-5% 1/4W FENGHUA    |
| R9327 | 061G1206104 JF | 9JR6100002335 | RST CHIPR 100KOHM +-5% 1/4W FENGHUA    |
| R9326 | 061G1206104 JF | 9JR6100002335 | RST CHIPR 100KOHM +-5% 1/4W FENGHUA    |
| R9325 | 061G1206104 JF | 9JR6100002335 | RST CHIPR 100KOHM +-5% 1/4W FENGHUA    |
| R9302 | 061G1206104 JF | 9JR6100002335 | RST CHIPR 100KOHM +-5% 1/4W FENGHUA    |
| R9302 | 061G1206104 JT | 9JR6100002336 | RST CHIPR 100KOHM +-5% 1/4W TZAI YUAN  |
| R9325 | 061G1206104 JT | 9JR6100002336 | RST CHIPR 100KOHM +-5% 1/4W TZAI YUAN  |
| R9326 | 061G1206104 JT | 9JR6100002336 | RST CHIPR 100KOHM +-5% 1/4W TZAI YUAN  |
| R9327 | 061G1206104 JT | 9JR6100002336 | RST CHIPR 100KOHM +-5% 1/4W TZAI YUAN  |
| R9328 | 061G1206104 JT | 9JR6100002336 | RST CHIPR 100KOHM +-5% 1/4W TZAI YUAN  |
| R9319 | 061G12061504FF | 9JR6100002337 | RST CHIPR 1.5MOHM 1% 1/4W FENGHUA      |
| R9318 | 061G12061504FF | 9JR6100002337 | RST CHIPR 1.5MOHM 1% 1/4W FENGHUA      |
| R9317 | 061G12061504FF | 9JR6100002337 | RST CHIPR 1.5MOHM 1% 1/4W FENGHUA      |
| R9150 | 061G12061504FF | 9JR6100002337 | RST CHIPR 1.5MOHM 1% 1/4W FENGHUA      |
| R9144 | 061G12061504FF | 9JR6100002337 | RST CHIPR 1.5MOHM 1% 1/4W FENGHUA      |
| R9142 | 061G12061504FF | 9JR6100002337 | RST CHIPR 1.5MOHM 1% 1/4W FENGHUA      |
| R9142 | 061G12061504FT | 9JR6100002338 | RST CHIP 1M5 1/4W 1%                   |
| R9144 | 061G12061504FT | 9JR6100002338 | RST CHIP 1M5 1/4W 1%                   |
| R9150 | 061G12061504FT | 9JR6100002338 | RST CHIP 1M5 1/4W 1%                   |
| R9319 | 061G12061504FT | 9JR6100002338 | RST CHIP 1M5 1/4W 1%                   |
| R9318 | 061G12061504FT | 9JR6100002338 | RST CHIP 1M5 1/4W 1%                   |
| R9317 | 061G12061504FT | 9JR6100002338 | RST CHIP 1M5 1/4W 1%                   |
| R9175 | 061G1206152 JF | 9JR6100002339 | RST CHIPR 1.5KOHM +-5% 1/4W FENGHUA    |
| R9176 | 061G1206152 JF | 9JR6100002339 | RST CHIPR 1.5KOHM +-5% 1/4W FENGHUA    |
| R9177 | 061G1206152 JF | 9JR6100002339 | RST CHIPR 1.5KOHM +-5% 1/4W FENGHUA    |
| R9177 | 061G1206152 JT | 9JR6100002340 | RST CHIPR 1.5KOHM +-5% 1/4W TZAI YUAN  |
| R9176 | 061G1206152 JT | 9JR6100002340 | RST CHIPR 1.5KOHM +-5% 1/4W TZAI YUAN  |
| R9175 | 061G1206152 JT | 9JR6100002340 | RST CHIPR 1.5KOHM +-5% 1/4W TZAI YUAN  |
| R9306 | 061G12062001FF | 9JR6100002341 | RST CHIPR 2KOHM +-1% 1/4W FENGHUA      |
| R9306 | 061G12062001FT | 9JR6100002342 | RST CHIP R 2KOHM 1/4W +/-1%            |
| R9303 | 061G1206203 JF | 9JR6100002343 | RST CHIPR 20KOHM +-5% 1/4W FENGHUA     |
| R9159 | 061G1206203 JF | 9JR6100002343 | RST CHIPR 20KOHM +-5% 1/4W FENGHUA     |
| R9159 | 061G1206203 JT | 9JR6100001147 | RST CHIPR 20KOHM +-5% 1/4W TZAI YUAN   |
| R9303 | 061G1206203 JT | 9JR6100001147 | RST CHIPR 20KOHM +-5% 1/4W TZAI YUAN   |
| R9305 | 061G1206221 JF | 9JR6100002344 | RST CHIPR 220 OHM +-5% 1/4W FENGHUA    |
| R9305 | 061G1206221 JT | 9JR6100002345 | RST CHIPR 220 OHM +-5% 1/4W TZAI YUAN  |
| R9332 | 061G1206229 JF | 9JR6100002346 | RST CHIPR 2.2 OHM +-5% 1/4W FENGHUA    |
| R9332 | 061G1206229 JT | 9JR6100001288 | RST CHIPR 2R2 +-5% 1/4W TZAI YUAN      |
| R9146 | 061G12062431FF | 9JR6100002347 | RST CHIPR 2.43KOHM +-1% 1/4W FENGHUA   |
| R9146 | 061G12062431FT | 9JR6100002348 | RST CHIPR 2.43KOHM +-1% 1/4W TZAI YUAN |
| R9180 | 061G12062702FF | 9JR6100002349 | RST CHIPR 27KOHM +-1% 1/4W FENGHUA     |
| R9180 | 061G12062702FT | 9JR6100002350 | RST CHIP R 27KOHM 1/4W +/-1%           |
| R9331 | 061G1206470 JF | 9JR6100002351 | RST CHIPR 47 OHM +-5% 1/4W FENGHUA     |
| R9330 | 061G1206470 JF | 9JR6100002351 | RST CHIPR 47 OHM +-5% 1/4W FENGHUA     |
| R9330 | 061G1206470 JT | 9JR6100002352 | RST CHIPR 47 OHM +-5% 1/4W TZAI YUAN   |
| R9331 | 061G1206470 JT | 9JR6100002352 | RST CHIPR 47 OHM +-5% 1/4W TZAI YUAN   |
| R9323 | 061G1206475 JF | 9JR6100002353 | RST CHIPR 4.7 MOHM +-5% 1/4W FENGHUA   |
| R9323 | 061G1206475 JT | 9JR6100002354 | RST CHIPR 4.7 MOHM +-5% 1/4W TZAI YUAN |
| R9171 | 061G1206512 JF | 9JR6100002355 | RST CHIPR 5.1KOHM +-5% 1/4W FENGHUA    |
| R9172 | 061G1206512 JF | 9JR6100002355 | RST CHIPR 5.1KOHM +-5% 1/4W FENGHUA    |
| R9173 | 061G1206512 JF | 9JR6100002355 | RST CHIPR 5.1KOHM +-5% 1/4W FENGHUA    |
| R9174 | 061G1206512 JF | 9JR6100002355 | RST CHIPR 5.1KOHM +-5% 1/4W FENGHUA    |
| R9174 | 061G1206512 JT | 9JR6100001074 | RST CHIPR 5.1 KOHM +-5% 1/4W TZAI YUAN |
| R9173 | 061G1206512 JT | 9JR6100001074 | RST CHIPR 5.1 KOHM +-5% 1/4W TZAI YUAN |
| R9172 | 061G1206512 JT | 9JR6100001074 | RST CHIPR 5.1 KOHM +-5% 1/4W TZAI YUAN |
| R9171 | 061G1206512 JT | 9JR6100001074 | RST CHIPR 5.1 KOHM +-5% 1/4W TZAI YUAN |
| R9158 | 061G1206562 JF | 9JR6100002356 | RST CHIPR 5.6KOHM +-5% 1/4W FENGHUA    |
| R9158 | 061G1206562 JT | 9JR6100002357 | RST 1206 5.6K 5% 1/4W TZAI YUAN        |
| R9815 | 061G12066803FF | 9JR6100000820 | RST CHIPR 680KOHM +-1% 1/4W FENGHUA    |
| R9816 | 061G12066803FF | 9JR6100000820 | RST CHIPR 680KOHM +-1% 1/4W FENGHUA    |
| R9815 | 061G12066803FT | 9JR6100002358 | RST CHIP 680K 1/4W 1%                  |
| R9816 | 061G12066803FT | 9JR6100002358 | RST CHIP 680K 1/4W 1%                  |

|        |                   |               |                                        |
|--------|-------------------|---------------|----------------------------------------|
| R9807  | 061G1206750 JT    | 9JR6100001273 | RST CHIPR 75 OHM +-5% 1/4W TZAI YUAN   |
| R9807  | 061G1206750 JY    | 9JR6100002359 | RST CHIPR 75 OHM +-5% 1/4W YAGEO       |
| C9827  | 065G080510231J A  | 9JR6500001442 | 0805 1000PF J 50V NPO                  |
| C9155  | 065G080510232K F  | 9JR6500000366 | CAP 0805 1000PF 10% 50V X7R            |
| C9334  | 065G080510232K F  | 9JR6500000366 | CAP 0805 1000PF 10% 50V X7R            |
| C9144  | 065G080510432K Y  | 9JR6500000168 | CAP CHIP 0805 100N 50V X7R +/-10%      |
| C9145  | 065G080510432K Y  | 9JR6500000168 | CAP CHIP 0805 100N 50V X7R +/-10%      |
| C9146  | 065G080510432K Y  | 9JR6500000168 | CAP CHIP 0805 100N 50V X7R +/-10%      |
| C9149  | 065G080510432K Y  | 9JR6500000168 | CAP CHIP 0805 100N 50V X7R +/-10%      |
| C9165  | 065G080510432K Y  | 9JR6500000168 | CAP CHIP 0805 100N 50V X7R +/-10%      |
| C9170  | 065G080510432K Y  | 9JR6500000168 | CAP CHIP 0805 100N 50V X7R +/-10%      |
| C9301  | 065G080510432K Y  | 9JR6500000168 | CAP CHIP 0805 100N 50V X7R +/-10%      |
| C9335  | 065G080510432K Y  | 9JR6500000168 | CAP CHIP 0805 100N 50V X7R +/-10%      |
| C9342  | 065G080510432K Y  | 9JR6500000168 | CAP CHIP 0805 100N 50V X7R +/-10%      |
| C9828  | 065G080510432K Y  | 9JR6500000168 | CAP CHIP 0805 100N 50V X7R +/-10%      |
| C9829  | 065G080510432K Y  | 9JR6500000168 | CAP CHIP 0805 100N 50V X7R +/-10%      |
| C9151  | 065G080510522K M  | 9JR6500001446 | CAP 0805 1UF 10% 25V X7R               |
| C9171  | 065G080510532K M  | 9JR6500001447 | CAP 0805 1UF 10% 50V X7R               |
| C9153  | 065G080510532K M  | 9JR6500001447 | CAP 0805 1UF 10% 50V X7R               |
| C9826  | 065G080522232K A  | 9JR6500000507 | CAP 0805 2.2NF 10% 50V X7R             |
| C9824  | 065G080522332K Y  | 9JR6500001450 | CAP CHIP 0805 22N 50V X7R +/-10%       |
| C9825  | 065G080522432K F  | 9JR6500000378 | CAP 0805 220NF 10% 50V X7R             |
| C9343  | 065G080522432K Y  | 9JR6500000453 | CAP CHIP 0805 220N 50V X7R +/-10%      |
| C9150  | 065G080522525K 3  | 9JR6500001451 | CAP 0805 2.2UF 10% 25V X5R             |
| C9159  | 065G080533432K F  | 9JR6500001453 | CAP 0805 330NF 10% 50V X7R             |
| C9333  | 065G080547432K F  | 9JR6500001454 | 0805 0.47UF K 50V X7R                  |
| C9148  | 065G0805475A2K 3  | 9JR6500000207 | CAP 0805 4.7UF 10% 10V X7R             |
| C9154  | 065G080556131J Y  | 9JR6500000329 | CAP CHIP 0805 560P 50V NP0 +/-5%       |
| ZD9106 | 093G 39S951 T     | 9JR9300000405 | ZENER BZT52-B5V1 5.1V 0.41W SOD-123    |
| ZD9104 | 093G 39S964 T     | 9JR9300000406 | ZENER BZT52-B13 13V 0.41W SOD-123      |
| D9112  | 093G 60S500 T     | 9JR9300000407 | SCHOTTKY SS1060FL 1A 60V SOD123FL      |
| D9113  | 093G 60S500 T     | 9JR9300000407 | SCHOTTKY SS1060FL 1A 60V SOD123FL      |
| D9301  | 093G 60S500 T     | 9JR9300000407 | SCHOTTKY SS1060FL 1A 60V SOD123FL      |
| D9302  | 093G 60S500 T     | 9JR9300000407 | SCHOTTKY SS1060FL 1A 60V SOD123FL      |
| D9803  | 093G 60S500 T     | 9JR9300000407 | SCHOTTKY SS1060FL 1A 60V SOD123FL      |
| ZD9107 | 393G039SA1200T    | 9JR3930000002 | ZENER BZT52-B22 22V 0.41W SOD-123 150C |
|        | 709T51730QS001    | 9JR7090000003 | 5173 SMT                               |
|        | 052G 2191 A       | 9JR5200000066 | PAPER TAPE                             |
| CN901  | 006G 31500        | 9JR0060000002 | EYELET                                 |
| T9101  | 006G 31500        | 9JR0060000002 | EYELET                                 |
| IC9107 | 056G 158 10 T     | 9JR5600000058 | DC/DC AS431AZTR-E1 150MA 40V TO-92     |
| IC9304 | 056G 158 10 T     | 9JR5600000058 | DC/DC AS431AZTR-E1 150MA 40V TO-92     |
| R9141  | 061G 1SJ10852T SY | 9JR6100002266 | RST WD 0.1R 5% 1W                      |
| R9329  | 061G 1SJ10852T SY | 9JR6100002266 | RST WD 0.1R 5% 1W                      |
| R9814  | 061G214Y10552T SY | 9JR6100002360 | RST MGFR 1MOHM +-5% 1/4W FUTABA        |
| SG9902 | 062G 10 18 M      | 9JR6200000008 | SPARK GAP 200V                         |
| SG9903 | 062G 10 18 M      | 9JR6200000008 | SPARK GAP 200V                         |
| SG9904 | 062G 10 18 M      | 9JR6200000008 | SPARK GAP 200V                         |
| SG9905 | 062G 10 18 M      | 9JR6200000008 | SPARK GAP 200V                         |
| C9156  | 065G 1K101 2T6921 | 9JR6500000514 | CAP CER 100PF 1KV K Y5P                |
| C9331  | 065G 1K1029ST     | 9JR6500001424 | CAP CER 1NF 10% 1KV R                  |
| C9338  | 065G 1K1029ST     | 9JR6500001424 | CAP CER 1NF 10% 1KV R                  |
| C9803  | 065G 1K471 2T6921 | 9JR6500001425 | CAP CER 470PF 1KV K Y5P                |
| C9905  | 065G306K4712SR    | 9JR6500001457 | CAP Y1 470PF 10% 250V Y5P              |
| C9915  | 065G306K4712SR    | 9JR6500001457 | CAP Y1 470PF 10% 250V Y5P              |
| C9906  | 065G306K4712SR    | 9JR6500001457 | CAP Y1 470PF 10% 250V Y5P              |
| C9907  | 065G306K4712SR    | 9JR6500001457 | CAP Y1 470PF 10% 250V Y5P              |
| C9908  | 065G306K4712SR    | 9JR6500001457 | CAP Y1 470PF 10% 250V Y5P              |
| C9902  | 065G306K6812SR    | 9JR6500001458 | CAP Y1 680PF 10% 250V Y5P              |
| C9912  | 065G306K6812SR    | 9JR6500001458 | CAP Y1 680PF 10% 250V Y5P              |
| C9909  | 065G306K6812SR    | 9JR6500001458 | CAP Y1 680PF 10% 250V Y5P              |
| C9903  | 065G306M1023SR    | 9JR6500001459 | CAP Y1 1NF 20% 250V Y5U                |
| C9913  | 065G306M1023SR    | 9JR6500001459 | CAP Y1 1NF 20% 250V Y5U                |
| C9904  | 065G306M1023SR    | 9JR6500001459 | CAP Y1 1NF 20% 250V Y5U                |
| C9914  | 065G306M1023SR    | 9JR6500001459 | CAP Y1 1NF 20% 250V Y5U                |
| C9344  | 067G 2044712KT A  | 9JR6700000343 | CAP CS 470UF 20% 10V 10*7 2000 HR      |
| C9830  | 067G 3151007HB A  | 9JR6700000345 | EC 10UF 20% 50V 6.3*7 3000 HR          |
| C9337  | 067G 3154707HT    | 9JR6700000346 | EC 47UF 20% 50V                        |

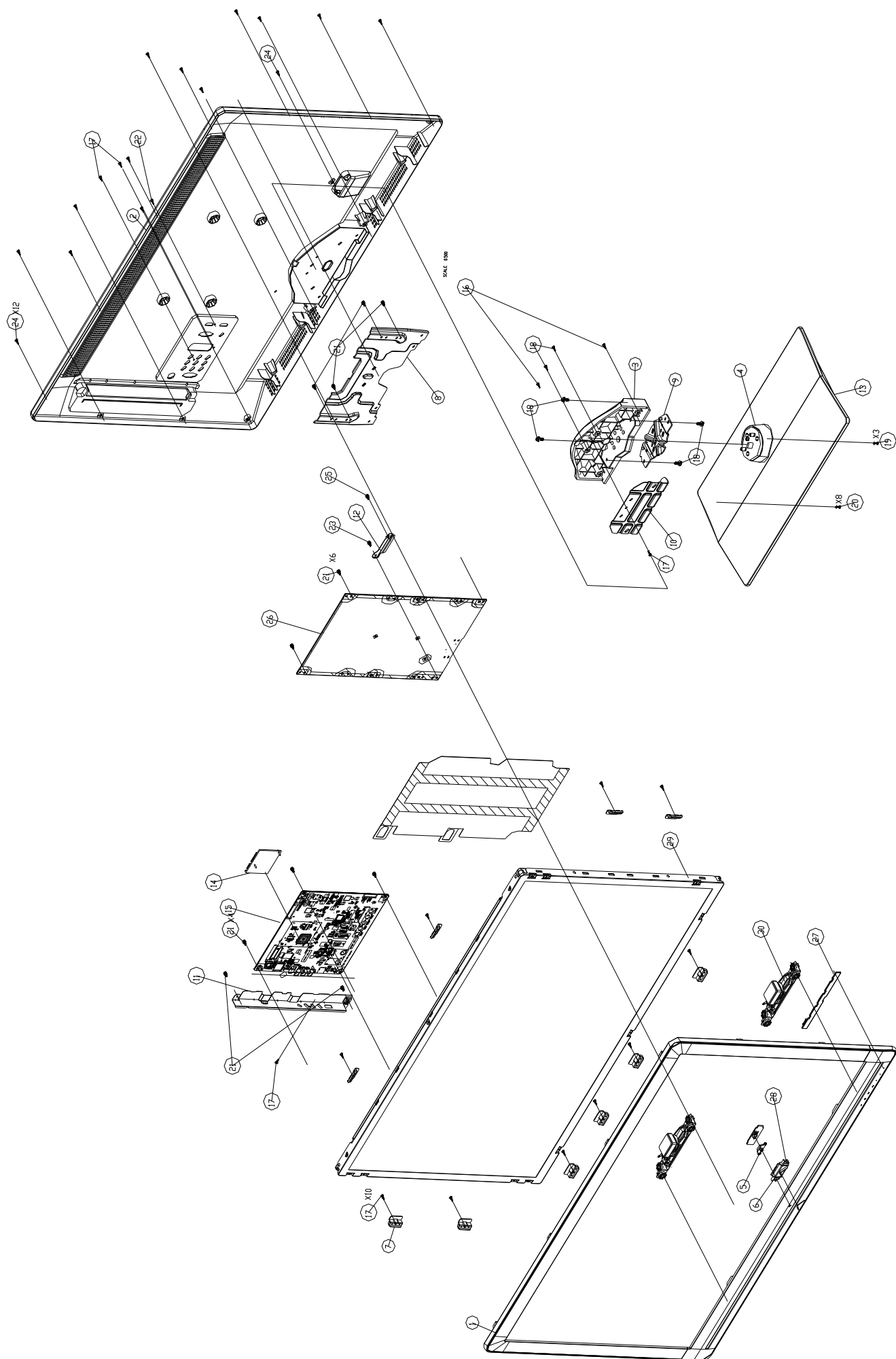
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| C9163  | 067G 5153314HT A | 9JR6700000347 | EC 330UF 20% 25V HSP331M1EG07VM6HTAP5                           |
| C9168  | 067G 5153314HT A | 9JR6700000347 | EC 330UF 20% 25V HSP331M1EG07VM6HTAP5                           |
| C9169  | 067G 5153314HT A | 9JR6700000347 | EC 330UF 20% 25V HSP331M1EG07VM6HTAP5                           |
| C9341  | 067G 5153314HT A | 9JR6700000347 | EC 330UF 20% 25V HSP331M1EG07VM6HTAP5                           |
| C9340  | 067G 5153314HT A | 9JR6700000347 | EC 330UF 20% 25V HSP331M1EG07VM6HTAP5                           |
| C9147  | 067G315M2207HB   | 9JR6700000348 | EC 22UF 20% 50V 6.3*7 3000 HR                                   |
| C9302  | 067G315M2207HB   | 9JR6700000348 | EC 22UF 20% 50V 6.3*7 3000 HR                                   |
| C9336  | 067G315M2207HB   | 9JR6700000348 | EC 22UF 20% 50V 6.3*7 3000 HR                                   |
| FB9802 | 071G 55 8        | 9JR7100000028 | BEAD 3.5*4.5 80R 25% BF-I35045W-699, HF                         |
| FB902  | 071G 55 23 S     | 9JR7100000257 | FERRITE BEAD LB 3.5*0.8*7.5A                                    |
| FB9801 | 071G 55 26 H     | 9JR7100000258 | BEAD 3.5*6.0*0.8 127R 25% BF-I35060R-796                        |
| FB9801 | 071G 55 26 S     | 9JR7100000056 | BEAD 3.5*6MM 127R 25% LB3.5 <sub>1</sub> Ä0.8 <sub>1</sub> Ä6-2 |
| FB9803 | 071G 55 29       | 9JR7100000057 | FERRITE BEAD                                                    |
| ZD9103 | 093G 3957752T    | 9JR9300000397 | GDZJ6.2B                                                        |
| ZD9105 | 093G 3995652T    | 9JR9300000398 | DIODE GDZJ30B DO-35                                             |
| D9114  | 093G 52908       | 9JR9300000215 | RECTIFIER UF4007 A0 1 1000 DO-41                                |
| D9307  | 093G 6026T52T    | 9JR9300000152 | CTIFIER DIODE FR107                                             |
| D9305  | 093G 6026T52T    | 9JR9300000152 | CTIFIER DIODE FR107                                             |
| D9304  | 093G 6026T52T    | 9JR9300000152 | CTIFIER DIODE FR107                                             |
| D9109  | 093G 6451652T    | 9JR9300000402 | 1N4148                                                          |
| D9110  | 093G 6451652T    | 9JR9300000402 | 1N4148                                                          |
| D9306  | 093G 6451652T    | 9JR9300000402 | 1N4148                                                          |
| ZD9102 | 093G 39G 5       | 9JR9300000221 | DIODE MTZJ15B DO-34                                             |
| ZD9303 | 093G 39G 5       | 9JR9300000221 | DIODE MTZJ15B DO-34                                             |
| ZD9101 | 093G 39G 9       | 9JR9300000403 | DIODE MTZJ30B DO-34                                             |
| ZD9301 | 093G 39G 11      | 9JR9300000404 | ZENER MTZJ18B 18V 0.5W DO-34                                    |
| J9823  | 095G 90 23       | 9JR9500000047 | JUMPER WIRE                                                     |
| J9113  | 095G 90 23       | 9JR9500000047 | JUMPER WIRE                                                     |
| J9112  | 095G 90 23       | 9JR9500000047 | JUMPER WIRE                                                     |
| J9109  | 095G 90 23       | 9JR9500000047 | JUMPER WIRE                                                     |
| J9101  | 095G 90 23       | 9JR9500000047 | JUMPER WIRE                                                     |
| J9102  | 095G 90 23       | 9JR9500000047 | JUMPER WIRE                                                     |
| J9103  | 095G 90 23       | 9JR9500000047 | JUMPER WIRE                                                     |
| J9107  | 095G 90 23       | 9JR9500000047 | JUMPER WIRE                                                     |
| J9108  | 095G 90 23       | 9JR9500000047 | JUMPER WIRE                                                     |
| J9824  | 095G 90 23       | 9JR9500000047 | JUMPER WIRE                                                     |
| J9312  | 095G 90 23       | 9JR9500000047 | JUMPER WIRE                                                     |
| J9313  | 095G 90 23       | 9JR9500000047 | JUMPER WIRE                                                     |
| J9314  | 095G 90 23       | 9JR9500000047 | JUMPER WIRE                                                     |
| J9315  | 095G 90 23       | 9JR9500000047 | JUMPER WIRE                                                     |
| J9801  | 095G 90 23       | 9JR9500000047 | JUMPER WIRE                                                     |
| J9802  | 095G 90 23       | 9JR9500000047 | JUMPER WIRE                                                     |
| J9803  | 095G 90 23       | 9JR9500000047 | JUMPER WIRE                                                     |
| J9805  | 095G 90 23       | 9JR9500000047 | JUMPER WIRE                                                     |
| J9806  | 095G 90 23       | 9JR9500000047 | JUMPER WIRE                                                     |
| J9807  | 095G 90 23       | 9JR9500000047 | JUMPER WIRE                                                     |
| J9808  | 095G 90 23       | 9JR9500000047 | JUMPER WIRE                                                     |
| J9809  | 095G 90 23       | 9JR9500000047 | JUMPER WIRE                                                     |
| J9820  | 095G 90 23       | 9JR9500000047 | JUMPER WIRE                                                     |
| J9821  | 095G 90 23       | 9JR9500000047 | JUMPER WIRE                                                     |
| J9822  | 095G 90 23       | 9JR9500000047 | JUMPER WIRE                                                     |
| J9827  | 095G 90 23       | 9JR9500000047 | JUMPER WIRE                                                     |
| J9115  | 095G 90 23       | 9JR9500000047 | JUMPER WIRE                                                     |
| J9111  | 095G 90 23       | 9JR9500000047 | JUMPER WIRE                                                     |
| J8105  | 095G 90 23       | 9JR9500000047 | JUMPER WIRE                                                     |
| J8104  | 095G 90 23       | 9JR9500000047 | JUMPER WIRE                                                     |
| J9813  | 095G 90 23       | 9JR9500000047 | JUMPER WIRE                                                     |
| J9811  | 095G 90 23       | 9JR9500000047 | JUMPER WIRE                                                     |
| J9812  | 095G 90 23       | 9JR9500000047 | JUMPER WIRE                                                     |
| J9828  | 095G 90 23       | 9JR9500000047 | JUMPER WIRE                                                     |
| J9829  | 095G 90 23       | 9JR9500000047 | JUMPER WIRE                                                     |
| J9901  | 095G 90 23       | 9JR9500000047 | JUMPER WIRE                                                     |
| J9118  | 095G 90 23       | 9JR9500000047 | JUMPER WIRE                                                     |
| J9830  | 095G 90 23       | 9JR9500000047 | JUMPER WIRE                                                     |
| FB9804 | 095G 90 23       | 9JR9500000047 | JUMPER WIRE                                                     |
| J9114  | 095G 90 23       | 9JR9500000047 | JUMPER WIRE                                                     |
| J9116  | 095G 90 23       | 9JR9500000047 | JUMPER WIRE                                                     |
| J9117  | 095G 90 23       | 9JR9500000047 | JUMPER WIRE                                                     |



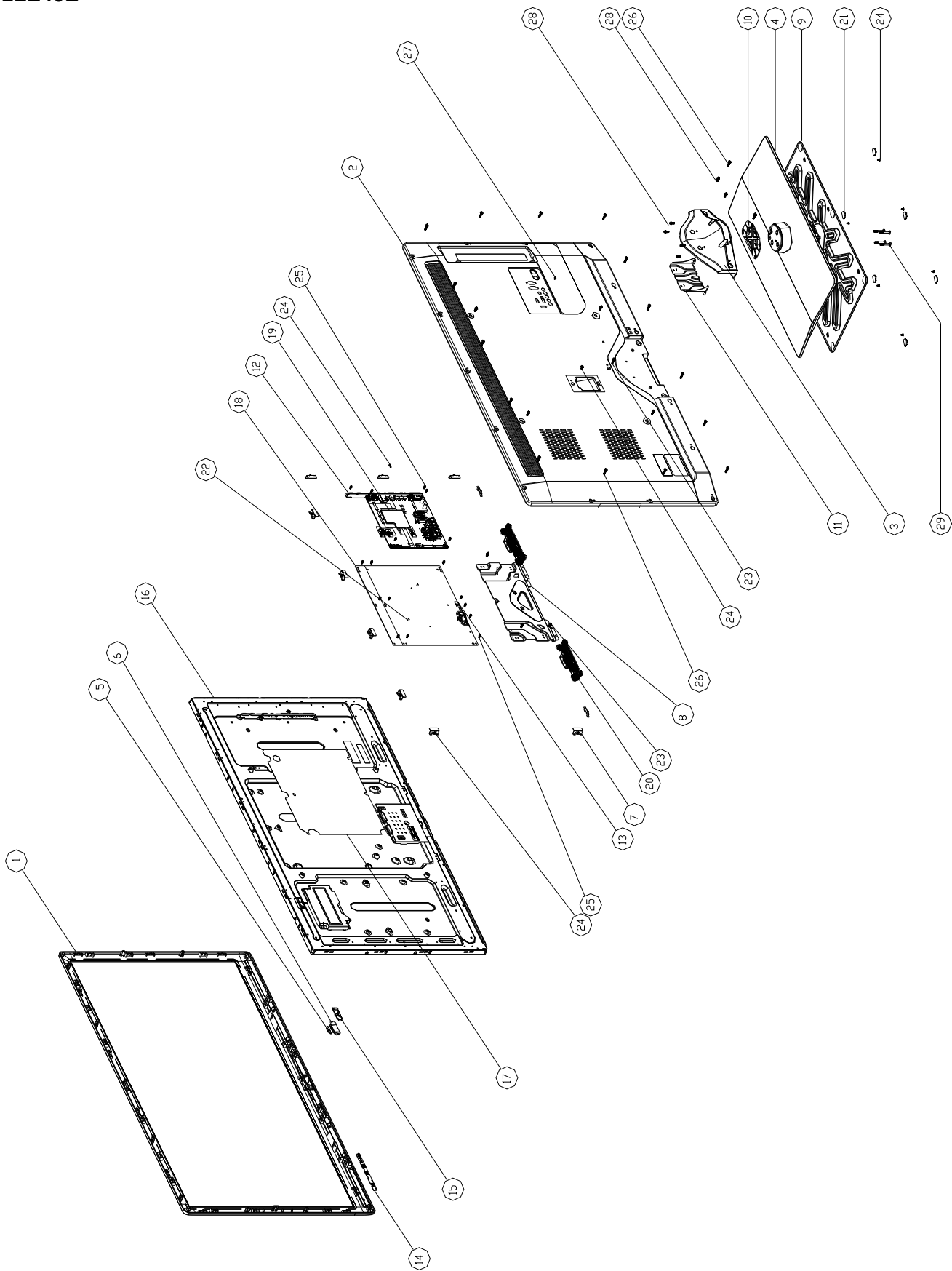
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| J9301  | 095G 90 23         | 9JR9500000047 | JUMPER WIRE                            |
| J9304  | 095G 90 23         | 9JR9500000047 | JUMPER WIRE                            |
| J9305  | 095G 90 23         | 9JR9500000047 | JUMPER WIRE                            |
| J9306  | 095G 90 23         | 9JR9500000047 | JUMPER WIRE                            |
| J9826  | 095G 90 23         | 9JR9500000047 | JUMPER WIRE                            |
| J9825  | 095G 90 23         | 9JR9500000047 | JUMPER WIRE                            |
| J9311  | 095G 90 23         | 9JR9500000047 | JUMPER WIRE                            |
| J9310  | 095G 90 23         | 9JR9500000047 | JUMPER WIRE                            |
| J9309  | 095G 90 23         | 9JR9500000047 | JUMPER WIRE                            |
| J9308  | 095G 90 23         | 9JR9500000047 | JUMPER WIRE                            |
| J9307  | 095G 90 23         | 9JR9500000047 | JUMPER WIRE                            |
| R9301  | 361G1SWJ10952T00SY | 9JR3610000001 | RST NWR 1.0R 5% 1W NWS01J1R00A520NH    |
| R9901  | 361G212Y75452T00SY | 9JR3610000002 | RST MGF 750K 5% 1/2W RMU12J7503A520NL  |
| C9172  | 363G213K2224TA     | 9JR3630000003 | CAP DMPE 2.2NF 10% 630V RSBPC1220SH00K |
| C9152  | 365G001J1006ST     | 9JR3650000001 | CAP CER 10PF 5% 1KV 8SL100J102N56G     |
|        | 709T51730QA001     | 9JR7090000001 | 5173 AI                                |
| E715   | 715G5173P01000003H | 9JR7150000015 | POWER BOARD PCB                        |
| E715   | 715G5173P01000003M | 9JR7150000016 | POWER BOARD PCB                        |
|        | P15T145610100000AJ | 9JR1500000076 | BKT_PANEL_TOP SGCC                     |
|        | Q11G701013000L00ZL | 9JR1100000013 | PCB-SUPPORT                            |
|        | Q45G 99606 25 ESD  | 9JR4500000128 | INSULATING PE BAG                      |
|        | 705TQBSKN06001     | 9JR7050001004 | BASE ASS'Y                             |
|        | 0M1G 940 12225 CR3 | 9JR0100000795 | SCREW M1-MACHINE SCREW X12.0           |
| M00104 | 0Q1G 930 8 47 H1   | 9JR0100000804 | SCREW 3X8                              |
| M00107 | 0Q1G 930 8 47 H1   | 9JR0100000804 | SCREW 3X8                              |
| M00107 | 0Q1G 930 8 47 RA   | 9JR0100000805 | SCREW 3X8                              |
| M00104 | 0Q1G 930 8 47 RA   | 9JR0100000805 | SCREW 3X8                              |
|        | P01G003500100000RA | 9JR0100000809 | SCREW 01-SPECIAL SCREW X30             |
|        | P15T141910200000YF | 9JR1500000075 | BKT_BASE SGCC                          |
|        | P34T0941ADT01T0100 | 9JR3400000126 | BASE_46_LED_SHP                        |
|        | Q12G6300 25 1 TS   | 9JR1200000047 | FOOT PAD                               |
|        | Q45G8801 TV008 X1  | 9JR4500000131 | PE PACKINGX630X380X0.04                |
|        | 705TQBSKN07001     | 9JR7050001005 | STAND ASS'Y                            |
| M00116 | 0M1G1740 12225 HX  | 9JR0100000799 | SCREW 3X8                              |
| M00116 | 0M1G1740 12225 RA  | 9JR0100000800 | SCREW 3X8                              |
|        | P15T141710100000GM | 9JR1500000073 | BKT_STAND SGCC                         |
|        | P15T141810100000AJ | 9JR1500000074 | BKT_HINGE SGCC                         |
|        | P34T0942ADT01T0100 | 9JR3400000127 | STAND_COVER_46_LED_SHP                 |
|        | Q45G 88525T40      | 9JR4500000127 | PE BAG                                 |
|        | 040G 58162435A     | 9JR4000000646 | PN LABEL FOR MANUAL PE BAG             |
|        | 052G 1185 1        | 9JR5200000065 | BIG TAPE(Y1200141)                     |
| E08901 | 089G204A15NLS1     | 9JR8900000009 | AC POWER CORD 1500                     |
|        | 092GB1JX1A3EGC     | 9JR9200000011 | BATTERY 1.5V LR03 AAA£"LR03£© ALKALI   |
|        | 098GRABD2NESPJ     | 9JR9800000005 | REMOTE SHARP RC-SHARP-420              |
| M00101 | 0M1G 930 6 47 H1   | 9JR0100000791 | SCREW 3X8                              |
| M00101 | 0M1G 930 6 47 RA   | 9JR0100000792 | SCREW 3X8                              |
| M00113 | 0M1G 940 8 47 H1   | 9JR0100000793 | SCREW 3X8                              |
| M00102 | 0M1G 940 8 47 H1   | 9JR0100000793 | SCREW 3X8                              |
| M00102 | 0M1G 940 8 47 RA   | 9JR0100000794 | SCREW 3X8                              |
| M00113 | 0M1G 940 8 47 RA   | 9JR0100000794 | SCREW 3X8                              |
| M00109 | 0M1G1730 8120 RA   | 9JR0100000797 | SCREW 3X8                              |
| M00108 | 0M1G1730 8120 RA   | 9JR0100000797 | SCREW 3X8                              |
| M00110 | 0M1G1730 8120 RA   | 9JR0100000797 | SCREW 3X8                              |
| M00111 | 0M1G1730 8120 RA   | 9JR0100000797 | SCREW 3X8                              |
| M00108 | 0M1G1730 8120 XL   | 9JR0100000798 | SCREW 3X8                              |
| M00111 | 0M1G1730 8120 XL   | 9JR0100000798 | SCREW 3X8                              |
| M00109 | 0M1G1730 8120 XL   | 9JR0100000798 | SCREW 3X8                              |
| M00110 | 0M1G1730 8120 XL   | 9JR0100000798 | SCREW 3X8                              |
| M00114 | 0Q1G 330 8 47 H1   | 9JR0100000801 | SCREW 3X8                              |
| M00114 | 0Q1G 330 8 47 RA   | 9JR0100000802 | SCREW 3X8                              |
| M00115 | 0Q1G 930 8 47 H1   | 9JR0100000804 | SCREW 3X8                              |
| M00115 | 0Q1G 930 8 47 RA   | 9JR0100000805 | SCREW 3X8                              |
| M00105 | 0Q1G 940 14 47 H1  | 9JR0100000807 | SCREW Q1-SELF TAPING SCREW TA:Q X14    |
| M00106 | 0Q1G 940 14 47 H1  | 9JR0100000807 | SCREW Q1-SELF TAPING SCREW TA:Q X14    |
| M00106 | 0Q1G 940 14 47 XL  | 9JR0100000808 | SCREW Q1-SELF TAPING SCREW:Q X14       |
| M00105 | 0Q1G 940 14 47 XL  | 9JR0100000808 | SCREW Q1-SELF TAPING SCREW:Q X14       |
| ECN408 | 395G801851XM46     | 9JR3950000003 | HARNESS 51P-30P 550MM                  |
| E750   | 750TBU420H1211N000 | 9JR7500000144 | LCD T420HVN01.200 TW AUO               |

## LC-32LE40E-LC-42LE40E

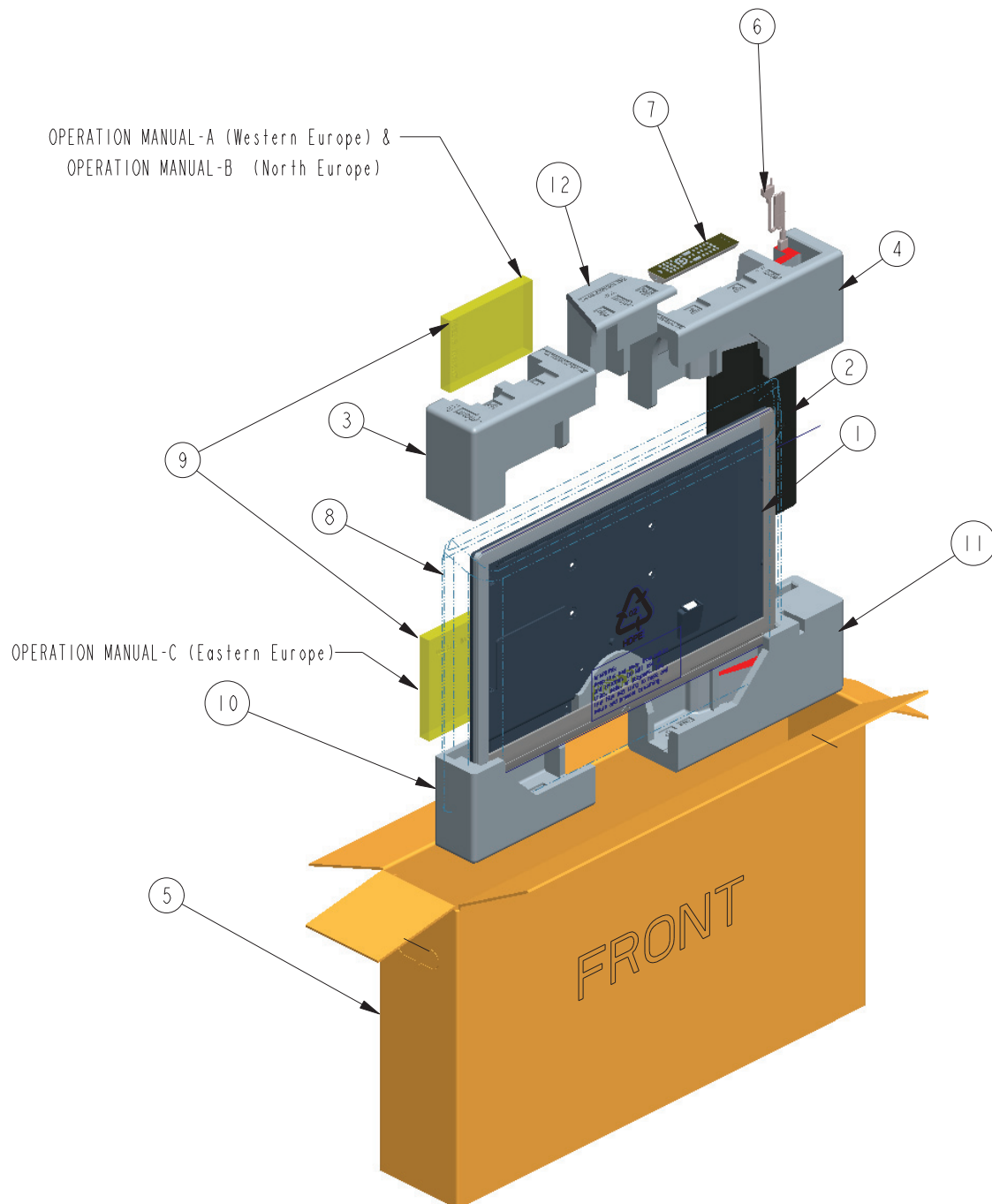
|  |                    |               |                                |
|--|--------------------|---------------|--------------------------------|
|  | P15T1406101CKD00AJ | 9JR1500000071 | BKT_PANEL_BTMTM SGCC           |
|  | P15T1407101CKD00YF | 9JR1500000072 | BKT_STAND SGCC                 |
|  | P15T1465101CKD00YF | 9JR1500000077 | BKT_IO SGCC                    |
|  | P16G006601300000ZA | 9JR1600000036 | SPONGE                         |
|  | P45T 77001         | 9JR4500000004 | LLDPE WRAPX-500MX-500MMX-17MIC |
|  | Q40G000184307A     | 9JR4000000649 | CARTON LABEL                   |
|  | Q40G000284317A     | 9JR4000000651 | OTHER LABEL -ENERGY            |
|  | Q40G042084302A     | 9JR4000000652 | RATING LABEL                   |
|  | Q40G201103201300ZA | 9JR4000000653 | LABEL IO_SIDE_SHARP            |
|  | Q41G32MV84303A     | 9JR4000000655 | 32LE40E 42LE40E A MANUAL       |
|  | Q41G32MV84304A     | 9JR4000000656 | 32LE40E 42LE40E B MANUAL       |
|  | Q41G78SV84301A     | 9JR4000000657 | 32LE40E 42LE40E QSG A          |
|  | Q45G2010M0101A     | 9JR4500000129 | PE BAG FOR MANUAL              |
|  | Q45G9901 TV021 HW  | 9JR4500000132 | PE PACKINGX1200X900X0.04       |
|  | Q50G 500523 JY     | 9JR5000000044 | CABLE TIE                      |
|  | Q52G1001208 A JY   | 9JR5200000067 | AL FOIL                        |
|  | Q52G130118600000YY | 9JR5200000068 | TAPE                           |
|  | Q52G15011505230WXW | 9JR5200000069 | TAPE_INSULATING                |
|  | Q52G160119100A00YY | 9JR5200000071 | TAPE                           |
|  | X52G18010TVX2200ZA | 9JR5200000072 | INSULATING SHEET               |
|  | Z44GN042101        | 9JR4400000446 | CUSHION-TL SHARP               |
|  | Z44GN042201        | 9JR4400000447 | CUSHION-TR SHARP               |
|  | Z44GN042301        | 9JR4400000448 | CUSHION-BL SHARP               |
|  | Z44GN042401        | 9JR4400000449 | CUSHION-BR SHARP               |
|  | Z44GN13084301A     | 9JR4400000450 | ARTWORK CARTON                 |



| LC-32LE40E |                    |               |                                     |
|------------|--------------------|---------------|-------------------------------------|
| Item       | Parts Code         | Sharp Code    | Description                         |
| 1          | P34T0935ADTA1T0230 | 9JR3400000129 | BEZEL                               |
| 2          | P34T0936ADT04T0230 | 9JR3400000130 | REAR COVER                          |
| 3          | P34T0938ADT01T0100 | 9JR3400000131 | HIGE_COVER                          |
| 4          | P34T0544ADT01T0100 | 9JR3400000128 | BASE                                |
| 5          | P33T0297 1 1C0100  | 9JR3300000108 | LENS_IR_42_LED_SHP                  |
| 6          | P33T0178PBC 1X0100 | 9JR3300000002 | LENS_DOUBLE_430                     |
| 7          | P15T1198102CKD00YF | 9JR1500000079 | BKT_PANEL_BTMM YO SGCC 1.2 MM       |
| 8          | P15T1421101CKD00GH | 9JR1500000081 | BKT_STAND SGCC                      |
| 9          | P15T142210100000GH | 9JR1500000082 | BKT_HINGE SGCC                      |
| 10         | P15T142310100000GH | 9JR1500000083 | BKT_HINGE SGCC                      |
| 11         | P15T1465101CKD00YF | 9JR1500000077 | BKT_IO SGCC                         |
| 12         | P15T139810100000YF | 9JR1500000080 | BRACKET_POWER_SUPPORT               |
| 13         | P15T083210200000YF | 9JR1500000078 | BKT_BASE SECC                       |
| 14         | P90T0065101        | 9JR9000000020 | HEAT SINK_IC_430_EU                 |
| 15         | 756TQCCB02B0670002 | 9JR7560000002 | MAIN BOARD                          |
| 16         | 0Q1G 940 16 47     | 9JR0100000821 | SCREW 4X16                          |
| 17         | 0Q1G 330 8 47      | 9JR0100000802 | SCREW 3X8                           |
| 18         | AM1G1740 12225 CR3 | 9JR0100000823 | SCREW                               |
| 19         | P01G003500100000RA | 9JR0100000809 | SCREW 01-SPECIAL SCREW X30          |
| 20         | 0Q1G 930 8120      | 9JR0100000817 | SCREW Q1-SELF TAPING SCREW:Q X8     |
| 21         | 0M1G1730 8120      | 9JR0100000796 | SCREW 3X8                           |
| 22         | 0M1G 930 8 47      | 9JR0100000810 | SCREW 3X8                           |
| 23         | 0M1G1740 8120      | 9JR0100000812 | SCREW M4X8                          |
| 24         | 0Q1G 930 10 47     | 9JR0100000819 | SCREW Q1-SELF TAPING SCREW TA:Q X10 |
| 25         | 0M1G1730 8120      | 9JR0100000796 | SCREW 3X8                           |
| 26         | PLTV1L644XAE7      | 9JR9900000551 | POWER BOARD                         |
| 27         | KEPFBAB4           | 9JR9900000544 | KEY BOARD                           |
| 28         | IRPFCAA1           | 9JR9900000543 | IR BOARD                            |
| 29         | 750TBU320X1013N000 | 9JR7500000145 | PANEL                               |
| 30         | 078G0110574 YA     | 9JR7800000157 | SPEAKER 16 OHM 11W 132X27MM - NO    |

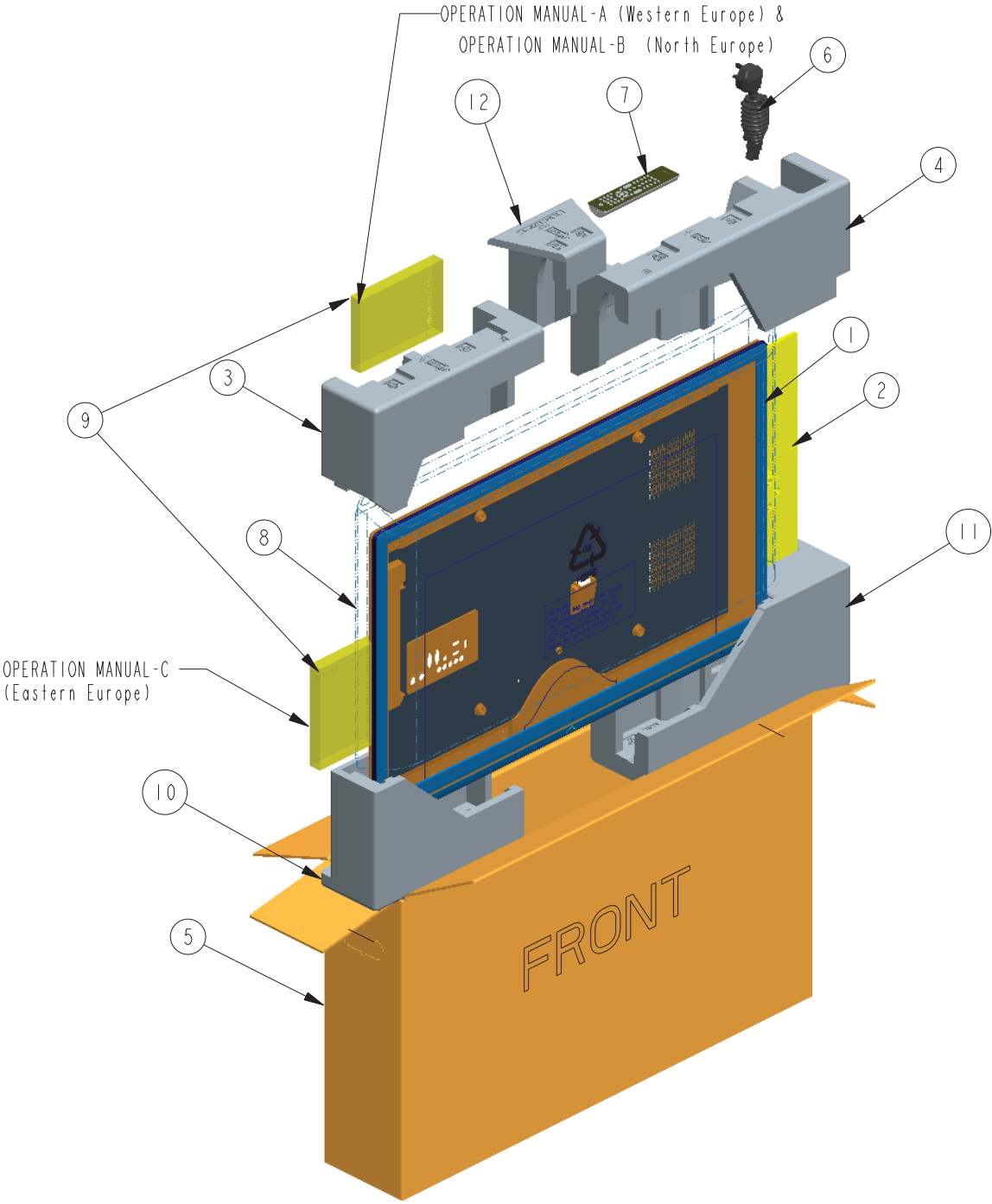


| LC-42LE40E |                    |               |                                     |
|------------|--------------------|---------------|-------------------------------------|
| Item       | Parts Code         | Sharp Code    | Description                         |
| 1          | P34T0931ADTA1T0130 | 9JR3400000124 | BEZEL_42_LED_SHP                    |
| 2          | P34T0932ADT02T0130 | 9JR3400000125 | REAR COVER_42_LED_SHP               |
| 3          | P34T0942ADT01T0100 | 9JR3400000127 | STAND_COVER_46_LED_SHP              |
| 4          | P34T0941ADT01T0100 | 9JR3400000126 | BASE_46_LED_SHP                     |
| 5          | P33T0297 1 1C0100  | 9JR3300000108 | LENS_IR_42_LED_SHP                  |
| 6          | P33T0178PBC 1X0100 | 9JR3300000002 | LENS_DOUBLE_430                     |
| 7          | P15T1406101CKD00AJ | 9JR1500000071 | BKT_PANEL_BTM SGCC                  |
| 8          | P15T1407101CKD00YF | 9JR1500000072 | BKT_STAND SGCC                      |
| 9          | P15T141910200000YF | 9JR1500000075 | BKT_BASE SGCC                       |
| 10         | P15T141810100000AJ | 9JR1500000074 | BKT_HINGE SGCC                      |
| 11         | P15T141710100000GM | 9JR1500000073 | BKT_STAND SGCC                      |
| 12         | P15T1465101CKD00YF | 9JR1500000077 | BKT_IO SGCC                         |
| 13         | P15T145610100000AJ | 9JR1500000076 | BKT_PANEL_TOP SGCC                  |
| 14         | KEPFBAB4           | 9JR9900000544 | KEY BOARD                           |
| 15         | IRPFCAA1           | 9JR9900000543 | IR BOARD                            |
| 16         | 750TBU420H1211N000 | 9JR7500000144 | PANEL                               |
| 17         | X52G18010TVX2200ZA | 9JR5200000072 | INSULATING SHEET                    |
| 18         | ADTV12415AF4       | 9JR9900000541 | POWER BOARD                         |
| 19         | 756TQCCB02B0680002 | 9JR7560000001 | MAIN BOARD                          |
| 20         | 078G0110574 YA     | 9JR7800000157 | SPEAKER 16 OHM 11W 132X27MM - NO    |
| 21         | Q12G6300 25 1 TS   | 9JR1200000047 | FOOT PAD                            |
| 22         | Q11G701013000L00ZL | 9JR1100000013 | PCB-SUPPORT                         |
| 23         | 0M1G 940 8 47 H1   | 9JR0100000793 | SCREW 3X8                           |
| 24         | 0Q1G 930 8 47 H1   | 9JR0100000804 | SCREW 3X8                           |
| 25         | 0M1G1730 8120      | 9JR0100000796 | SCREW 3X8                           |
| 26         | 0Q1G 940 14 47 H1  | 9JR0100000807 | SCREW Q1-SELF TAPING SCREW TA:Q X14 |
| 27         | 0M1G 930 6 47 H1   | 9JR0100000791 | SCREW 3X8                           |
| 28         | 0M1G 940 12225 CR3 | 9JR0100000795 | SCREW M1-MACHINE SCREW X12.0        |
| 29         | P01G003500100000RA | 9JR0100000809 | SCREW 01-SPECIAL SCREW X30          |

**[3] PACKING PARTS****LC-32LE40E**

| Item | Parts Code         | Sharp Code    | Description               |
|------|--------------------|---------------|---------------------------|
| 1    |                    |               | SET BODY                  |
| 2    | P34T0544ADT01T0100 | 9JR3400000128 | BASE                      |
| 3    | Z44GJ039101        | 9JR4400000463 | CUSHION-TL SHARP          |
| 4    | Z44GJ039201        | 9JR4400000464 | CUSHION-TR SHARP          |
| 5    | Z44GJ13084301A     | 9JR4400000467 | ARTWORK CARTON            |
| 6    | 089G204A15NLS1     | 9JR8900000009 | AC POWER CORD 1500        |
| 7    | 098GRABD2NESPJ     | 9JR9800000005 | REMOTE SHARP RC-SHARP-420 |
| 8    | Q45G9901 TV019 X1  | 9JR4500000136 | PROTECT BAGX1000X680X0.5  |
| 9    | Q45G2010M0101A     | 9JR4500000129 | PE BAG FOR MANUAL         |
| 10   | Z44GJ039301        | 9JR4400000465 | CUSHION-BL SHARP          |
| 11   | Z44GJ039401        | 9JR4400000466 | CUSHION-BR SHARP          |
| 12   | Q44GJ110501 HY     | 9JR4400000459 | CUSHION-TM EPE            |

LC-42LE40E



| Item | Parts Code         | Sharp Code    | Description               |
|------|--------------------|---------------|---------------------------|
| 1    |                    |               | SET BODY                  |
| 2    | P34T0941ADT01T0100 | 9JR3400000126 | BASE                      |
| 3    | Z44GN042101        | 9JR4400000446 | CUSHION-TL SHARP          |
| 4    | Z44GN042201        | 9JR4400000447 | CUSHION-TR SHARP          |
| 5    | Z44GN13084301A     | 9JR4400000450 | ARTWORK CARTON            |
| 6    | 089G204A15NLS1     | 9JR8900000009 | AC POWER CORD 1500        |
| 7    | 098GRABD2NESPJ     | 9JR9800000005 | REMOTE SHARP RC-SHARP-420 |
| 8    | Q45G9901 TV021 WN  | 9JR4500000133 | PROTECT BAG               |
| 9    | Q45G2010M0101A     | 9JR4500000129 | PE BAG FOR MANUAL         |
| 10   | Z44GN042301        | 9JR4400000448 | CUSHION-BL SHARP          |
| 11   | Z44GN042401        | 9JR4400000449 | CUSHION-BR SHARP          |
| 12   | Q44GN072501 HY     | 9JR4400000443 | CUSHION-TM EPE            |



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